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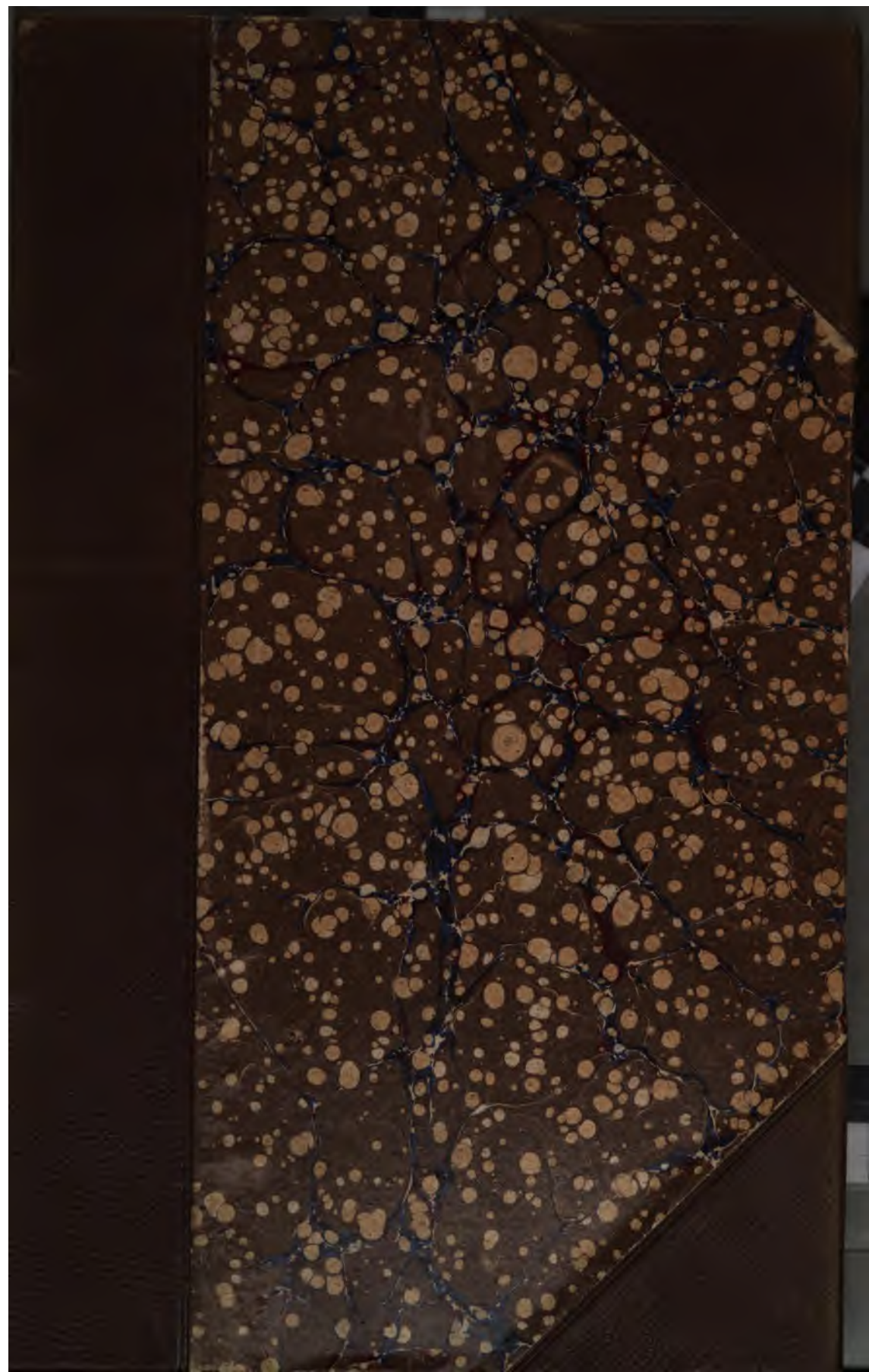
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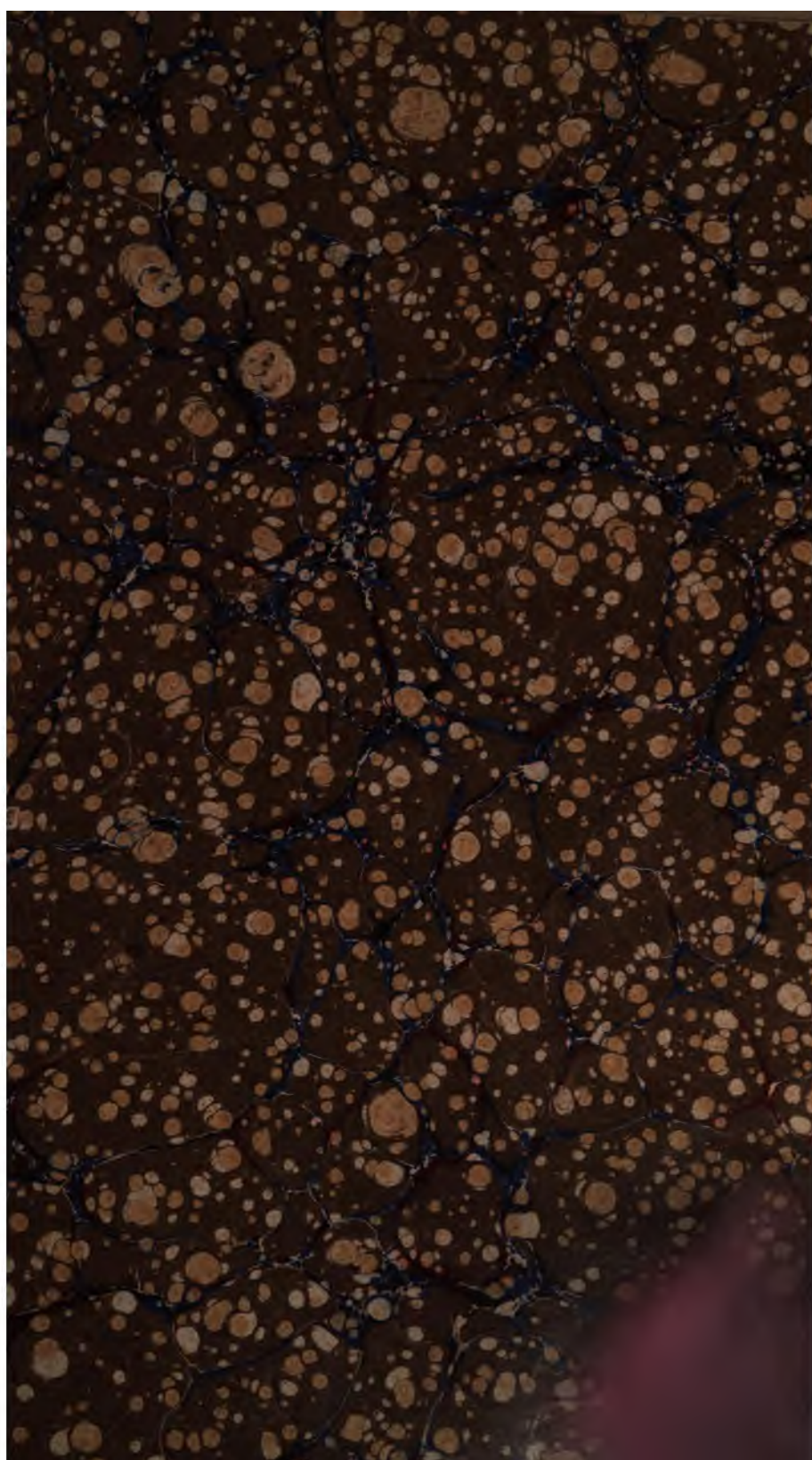
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PROCEEDINGS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY,
HELD AT PHILADELPHIA, FOR PROMOTING USEFUL KNOWLEDGE.

VOL. XXVII.

NOVEMBER 21, 1890.

NO. 181.

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It is requested that the receipt of this number be acknowledged.

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BY

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EXTRACT FROM THE BY-LAWS.

CHAPTER XII.

OF THE MAGELLANIC FUND.

SECTION 1. John Hyacinth de Magellan, in London, having in the year 1786 offered to the Society, as a donation, the sum of two hundred guineas, to be by them vested in a secure and permanent fund, to the end that the interest arising therefrom should be annually disposed of in premiums, to be adjudged by them to the author of the best discovery, or most useful invention, relating to Navigation, Astronomy, or Natural Philosophy (mere natural history only excepted); and the Society having accepted of the above donation, they hereby publish the conditions, prescribed by the donor and agreed to by the Society; upon which the said annual premiums will be awarded.

CONDITIONS OF THE MAGELLANIC PREMIUM.

1. The candidate shall send his discovery, invention or improvement, addressed to the President, or one of the Vice-Presidents of the Society, free of postage or other charges; and shall distinguish his performance by some motto, device, or other signature, at his pleasure. Together with his discovery, invention, or improvement, he shall also send a sealed letter containing the same motto, device, or signature, and subscribed with the real name and place of residence of the author.
2. Persons of any nation, sect or denomination whatever, shall be admitted as candidates for this premium.
3. No discovery, invention or improvement shall be entitled to this premium, which hath been already published, or for which the author hath been publicly rewarded elsewhere.
4. The candidate shall communicate his discovery, invention or improvement, either in the English, French, German, or Latin language.
5. All such communications shall be publicly read or exhibited to the Society at some stated meeting, not less than one month previous to the day of adjudication, and shall at all times be open to the inspection of such members as shall desire it. But no member shall carry home with



Hall of the American Philosophical Society

THE AMERICAN PHILOSOPHY



FOUNDED IN 1875
 INCORPORATED IN 1877
 FIRST OCCUPATION OF THE HALL OF THE SOCIETY

PROCEEDINGS

CONVENEED IN 1875

CENTENNIAL ANNIVERSARY

First Occupation of the Hall of
 the Society

NOVEMBER 21, 1875

COMMITTEE OF ARRANGEMENTS

J. S. MILLER, President of the Society
 HENRY A. MILLER, Secretary
 W. W. KENNEDY, Editor



Mill of the American Phosphoric Works

J. C. Branner

THE AMERICAN PHILOSOPHICAL SOCIETY



FOUNDED MAY 25 1743
INCORPORATED MARCH 15 1780
FIRST OCCUPATION OF HALL NOVEMBER 21 1789

PROCEEDINGS

COMMEMORATIVE OF THE

CENTENNIAL ANNIVERSARY

OF THE

First Occupation of the Hall of
the Society

NOVEMBER 21 1889

COMMITTEE OF ARRANGEMENTS

J. SERGEANT PRICE *Chairman*

RICHARD VAUX

W. S. W. RUSCHENBERGER

WILLIAM A. INGHAM

CHARLES A. OLIVER

HENRY PHILLIPS, JR.

57

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East Meeting Room of the American Philosophical Society. Looking South.



COMMEMORATION
OF THE
CENTENNIAL ANNIVERSARY
OF THE
AMERICAN PHILOSOPHICAL SOCIETY'S
OCCUPATION OF ITS PRESENT HALL,
NOVEMBER 21, 1889.

At the stated meeting of the Society held on May 17, 1889, the following Resolution from the Committee on Hall was unanimously adopted:

RESOLVED, That a proper Commemorative Celebration of the Centennial Anniversary of the American Philosophical Society's occupation of its present Hall, on November 21, 1789, be held on November 21, 1889, the subject and order of exercises to be referred to a Special Committee of six members with power to take action on the matter.

In accordance with the resolution, the President appointed as such Committee, J. Sergeant Price, Esq., Chairman, and Messrs. Richard Vaux, W. S. W. Ruschenberger, William A. Ingham, Charles A. Oliver and Henry Phillips, Jr.

Proceedings at the Hall.

On the afternoon of November 21, 1889, at 4 o'clock, HON. FREDERICK FRALEY, LL.D., THE PRESIDENT of the Society, delivered the following address at the Hall of the Society:

Associates and Friends :

It gives me great pleasure to welcome you to this ancient edifice, which has been the home of the American Philosophical Society for one hundred years. It stands on a portion of the old State House Square, in Philadelphia, about which and the buildings standing upon it cluster so many precious historic and patriotic memories. The site for it was granted by the Commonwealth of Pennsylvania in the year 1785, after a persistent struggle on the part of the Society to obtain a spot upon which to locate its dwelling-place, and it is a source of high gratification to all those who have succeeded in the membership of the Society that such a place was selected for its home. It stands in close proximity to the other monumental buildings upon the square, is not distinguished by any architectural pretensions, but is a simple, home-like building, frequently mistaken as a part of the municipal buildings which surround it. As the passers in the streets go to and fro they identify it with the city buildings and have no consciousness that it is the ancient home of a great scientific institution.

The members of that day had considerable trouble, of course, in raising the necessary funds for the erection of such a building. It was one of quite large proportions then, and it occupied some thought so to

adjust the apartments to the expected purposes of the institution as to have space, convenience and harmony of arrangements. But when the members of the Society and visitors from abroad enter its portals to ascend to these rooms, memories of the past naturally arise in their hearts, and they feel that they are surrounded by a different atmosphere from that which prevails below. Their thoughts are exalted to the purposes of such an institution, and after looking over its treasures and appreciating what so many years have gathered together they are prepared to go, reinforced by its associations, and hopeful that such an institution may continue for many years to come.

The property was granted in perpetuity by the Commonwealth, with permission to rent such parts of the building as were not needed for its immediate use, and from the time it was erected to the present hour considerable portions of it have been under rental, largely contributing to the income of the Society and enabling it to work out its career of usefulness. It has been attempted, upon several occasions, to dispose of our interests in the site and building, but we are limited in these respects to a sale to the city of Philadelphia, to the county of Philadelphia, to the State of Pennsylvania, and to the United States, for courts of justice or purposes cognate thereto. Thus it has happened that upon two occasions arrangements have been made to sell it to the city of Philadelphia and once to sell it to the United States, but happily, perhaps, for the institution, those sales were not consummated, and we still remain in our ancient dwelling-place. Yet when our Committee on Hall moved the Society to hold this celebration, it seems to me that they meant to admon-

ish us of the fact that the time was rapidly approaching when we must dispose of our property here.

In the year 1870 the Legislature created a Building Commission for the purpose of erecting a City Hall on Penn Square, and they connected with that enactment a provision that when those buildings were completed the Building Commission should remove from this beloved square all the buildings standing upon it except the venerable State House, Independence Hall, supposing that would be a sufficient monument to perpetuate all the patriotic thoughts clustering about the city of Philadelphia.

I feel embarrassed when I have to talk of our parting with our ancient home. It is associated in my mind with so much pleasure, with so much instruction, that perhaps I ought to hope that I may not live to see the Society part with it. But there are considerations connected with this subject which I think ought to weigh with the members of the Society, when they consider the vast amount of precious treasures that we have accumulated here in the shape of our library, our collections, our manuscripts, our portraits, and so many things of which all feel pride in the possession. We have a building fund slowly accumulating, which, in time, independently of the sale of this property, might provide for the erection of a fire-proof building, and we ought, perhaps, to look a little beyond our own immediate wants and ascertain, when the time of removal comes, whether there are not kindred associations in the city of Philadelphia with which we could unite in erecting a temple to useful knowledge, to the fine arts, to the mechanic arts, and to all those arts which contribute to the happiness and welfare of mankind.

It may be appropriate in the progress of this address to make a brief reference to the history of the Society itself. When Benjamin Franklin came to the city of Philadelphia about the year 1727, he formed that celebrated Junto which he has so admirably described in his autobiography, an association of his friends pledged to each other for mutual improvement, for the study of the philosophy and science of that day, and for disseminating their ideas by discussions and essays that might appear in the public prints.

It appears that for the forty years this Junto was in existence, it was always in the thoughts of that eminent and patriotic man, so urgent in the performance of his duties, so apt to every exigency, that even after it had existed for forty years he wrote to his friends in Philadelphia, calling their attention to the fact that the Junto still existed, and urging upon them the propriety of keeping up its meetings and further developing its usefulness and prosperity. In 1743, on the 25th of May—new style—Benjamin Franklin published a prospectus for the establishment of an American Philosophical Society. In that prospectus he described with minute precision the objects that such a society should have, the methods to prosecute them, the means by which it might obtain success, and the organization which seemed to him to be necessary to bring about perfection to such an institution. With keen foresight he saw that the chief labor of such a society and such an organization would devolve upon the active mind which had originated it, and with the simplicity and adaptation of his great character he proposed himself for the humble office of secretary in the society, and for many years acted in that capacity ;

and the minutes in his handwriting are to a great extent now in our possession. But 1743 was quite too early for an institution having such vast objects in view, expecting so much to be done by its members, and hoping to associate with them distinguished men from abroad to contribute to its proceedings and records. So the society had a sort of intermittent existence for many years, and in 1750 a new Junto made its appearance, established upon the same principles as the ancient Junto of Franklin, composed of many of his friends, and for awhile it seems to have been mistaken for the old Junto itself. But the examination of the records of our Society and of the traditions by Dr. R. M. Patterson, collected in 1843, when the Society celebrated the Centennial of its organization, seem to afford conclusive proof that it was a new Junto, copied from the old one, endeavoring to carry out the same objects and in the same way, and with the same number of members, the same traditions and everything that seemed to equip it for usefulness in such a crude form.

It went on, and in the year 1758, as far as I have been able to determine, it, too, formed a society for the promotion of useful knowledge. It embraced in its membership many of the distinguished men of the city of Philadelphia. It had for its president the Hon. James Hamilton, who was governor of the province of Pennsylvania, and with quite a worthy band of associates seemed, so far as the simplicity of those times could go with the need of educated minds to prosecute scientific research, to be accomplishing quite a useful purpose. But it was soon found that there was no room for two such societies, and gradu-

ally the authorities of each, in friendly conference, tried to bring them together, and after some diplomacy, and some difficulties about the status that the members of each should occupy in a new organization, the union was happily effected, in the month of December, 1768, and on the 2d of January, 1769, Benjamin Franklin, the honored scientist, the great statesman, the man of affairs, was elected President of the Society, and the subordinate officers were about equally divided among the members of the two institutions.

The new society took the title of "The American Philosophical Society, held at Philadelphia for Promoting Useful Knowledge," and such has been its honored and honorable designation from that time to the present hour.

I have thus briefly sketched the history of the building in which we are now assembled, and, as briefly, the history of the Society itself, and perhaps I ought to terminate my address at this point, but I cannot forbear to call the attention of my brother members to the illustrious list of members elected from 1769 up to the present day, the labors of the Society in promoting useful knowledge, the correspondence that it has held with foreign bodies of the same sort, the accumulation of the treasures which surround us here to-day, and all that seems to clothe such an association with a most honorable record and with the means for continued usefulness.

I may say, in passing, that I have known this hall for seventy-five years; that I recollect it when it was in part occupied by Charles Wilson Peale, the founder of the Philadelphia Museum, in which, while it con-

tinued in existence, so many people derived both amusement and instruction in natural history. I recollect when the cages which contained the animals that composed the modest menagerie which he possessed were located along the wall on Fifth street; and in my boyhood I used to go to look at what were then the wonders of natural history to me; and then, straying with my parents or friends into the old Museum which was then in Independence Hall, trying to gather amusement and instruction from the good collection that he had established there.

The Transactions and Proceedings of the Society contain the eulogies and other biographical notices of the members that have passed away, and I must refer my associates and friends to those Proceedings in order that they may read in those eulogies and biographies the character and works of the men who were members of this Society, and who ornamented and instructed the world by their labors in the various departments of useful knowledge, of applied science, of intellectual research—in all, indeed, that contributes to make the perfect man and to illustrate through him the great works of the Creator, and which enable men to penetrate into those secrets that are buried in the earth, exist in the air and in the waters, and which are so full, not only of instruction but admonition, too, to the thoughtful heart, to realize what is in the world and what the world seems to have been made for.

My intimate acquaintance and personal friendship with the prominent members of this Society resident in Pennsylvania began about the year 1825, when the Franklin Institute of Philadelphia was founded—a great institution intended for the promotion of the

mechanic arts. In its formation the active members of the Philosophical Society participated, two or three were counted among the founders of that institution, and many among its original members.

I have always considered it fortunate that I had such an introduction to the members of this Society. In the year 1842 I was honored with election to its membership, and for forty-seven years I have attended its meetings with reasonable regularity, listening to the papers and essays that have been read here, and the discussions which have come up from time to time upon them, forming the most pleasant and friendly association with the old members, and participating with them in the traditionary usages of the Society. After the serious business of the hour was over, the members gathered in a quiet circle around that ancient fireplace, and there, from grave to gay, from lively to severe, the conversation went on, science and humor and glee moving around the circle, cheering every heart; and when the old clock struck ten, the members, bidding each other a hearty good-night, separated with the hope that the next Friday evening would bring them together again for participation in renewed joy.

If I have had any useful career in life I owe much of it to what I have learned in the Franklin Institute and in the American Philosophical Society. And I avail myself of this occasion to say to my fellow-members that if I have a great object at heart at the present time it is that the American Philosophical Society shall rouse itself up with energy to the work that is demanded of it at the present time, and use the means and the influence that it has and the power that it ought to exercise in the community for promoting

everything that is connected with usefulness to man, everything that will tend to improve his moral and intellectual character, and everything that will enable him to rise with higher appreciation of what is good, drawing him nearer and nearer to the Great Creator.

I am almost afraid to trust myself to mention names in connection with this address, but considering that Benjamin Franklin and the worthies of those early days, that George Washington and Thomas Jefferson, and Robert Morris, and Alexander Hamilton, and Thomas Willing, and David Rittenhouse, were members of this Society before the close of the eighteenth century, and that since then the Society has been adorned by such men as Caspar Wistar, Robert Patterson, William Tilghman, Peter S. Duponceau, Nathaniel Chapman, Robert M. Patterson, Franklin Bache, Alexander Dallas Bache, John K. Kane, George B. Wood, and that other names of the illustrious roll such as Joseph Henry, Robert Hare, Henry D. Rogers, J. Peter Lesley and Asa Gray have been members during the present century, I think that I can point my fellow-members to a roll which they may study with great profit, realizing from it the instruction, the comfort, the happiness, I may say, in that such men have lived and have contributed so largely to the instruction of the world.

Here philanthropy has also had its home. Many of the great and useful institutions of the city of Philadelphia have been thought of, formulated and brought into existence within these walls. The Pennsylvania Institution for the Instruction of the Deaf and Dumb, the Pennsylvania Institution for the Instruction of the Blind, the House of Refuge, the Apprentices' Library,

the Academy of Natural Sciences, the Historical Society of Pennsylvania—oh, my friends and associates, my mind is full of these precious associations, and I have not time to give them full utterance. But pointing you to the records of the Society, I ask you to have the same interest in them that has given me so much enjoyment, and if in this hour I can awaken you to more affection for the old Society than you now have, and bring you to think of it in the same favorable light in which I do, I will have accomplished a part of my work as your President.

Our industrious Secretary, Mr. Henry Phillips, Jr., has prepared two pamphlets, being registers of the subjects of the essays that are to be found in the Transactions and Proceedings of the Society. You will wonder when you look over them at the diversity of objects which have been under the care of the Society, that have occupied its attention, that have stimulated its members in their various paths of life, and which have enabled them to throw additional light upon the concerns of the world, and to open up the treasures of science to those to whom they had not previously been given.

It is fortunate for us that the Society recovered from the great difficulties of a pecuniary character under which it labored in the year 1837, and has been able to accumulate a handsome permanent fund, which, with its rentals, enables it to publish in an attractive form all the valuable essays and contributions of the members, not only of its resident members, but of those cherished associates who reside abroad and are prosecuting their labors in the various fields of human knowledge. It will be criminal, indeed, for us to hold

the purse-strings with a niggard hand when contributions come to us for publication that have the merit of novelty in original research, of usefulness in discovery, because of the inability, often, among students to possess the pecuniary means to give them publication themselves. Here such a society as ours stands between the student who toils over the midnight lamp or penetrates the caverns of the earth, or looks into the heavens for new planets and new stars—here, then, I say, the members of our Society ought, with a liberal hand, to supply all such explorers in the fields of nature and all such laborers in the fields of knowledge with the means for giving publicity to their works and enabling them to spread abroad great scientific truths.

In closing this address, I will refer my associates and the friends that we have here with us to-day to the last edition of the charter and laws of the Society; and the same industrious Secretary to whom I have referred has placed upon the pages of that book, in the order of their election, the various Presidents of the Society, its Vice-Presidents, its Treasurers, its Secretaries, its Curators, and the members of its Council. An examination of this list shows, I think, the great sagacity of the founders of the Society in this respect: while, selecting from the members those who were thought worthy to be office bearers, they gradually placed each man in the position of apprenticeship, educating him in the work of the Society as he was found useful, promoting him to what was the higher order of the office holder, and thus bringing about an *esprit du corps* among the members of the Society which I think has largely contributed to its usefulness. Thus, we find that before the illustrious Jefferson was elected Presi-

dent, he served as a Vice-President of the Society, and during his residence in Philadelphia often attended its meetings, and when absent in Virginia, having the Society at heart, contributing original publications and even sending to it geological and other specimens, and discussing what some of us even now think are the mysteries of meteorology. So it was with every President of the Society (but one, and he its most liberal benefactor), that this process of education and assimilation as officers went on from the year 1769 and is now continued.

It may be appropriate in a slight historical sketch like this to say that the election of members is made in secrecy and confidence. The theory is that no man has the least idea that he is to be elected a member. He is proposed by two or more members, in writing, the nomination setting forth briefly the claims that he has to membership in the Society, and four times a year a balloting takes place, equally confidential and secret, requiring three-fourths of the votes cast to constitute an election. If a candidate be unsuccessful, the nomination papers and all the ballots containing his name are destroyed, and he is supposed never to know that he has been a candidate. And so, in this connection, and in view of this secret and confidential introduction to membership in the Society, I would urge my fellow-members, both resident and non-resident, to look about them with open eyes and with studious thought for men deemed fitting to be associated as members of this honorable institution. When they find, of their own knowledge or by inquiry, a worthy name to present for membership, to indicate in the same confidential way to their associates the

claims of such a man, and finally to bring him into the fold, where we may hope to have the benefit of his knowledge, the influence of his worth, the lustre which his character may throw upon the institution, and that his name may be placed on this Golden Roll, which began in 1743, and, coming down to the present day, contains a record of all those who have been elected to our membership.

If I find that it is not too voluminous, I propose to make it an addendum to this address which I have had the honor to deliver before you, so that it may point the way to the future as it will indicate the history of the past, and that this honorable Society of ours may go on, from century to century, by perpetual existence under that charter which it obtained from the State of Pennsylvania in the year 1780, so comprehensive in its character, so full of wisdom as to the purposes of such a society, securing for its members freedom of transmission of their correspondence and Proceedings even in times of war, and indicating that the men of those early days had those high purposes at heart which we of the present century are too apt to think are our peculiar inheritance.

What the discoveries of the past century have been ; how much they have contributed to the welfare and prosperity of the world ; how rapid and infinite the progress of discovery seems now to be ; such thoughts almost overwhelm the mind that attempts to contemplate them and to wonder what is to come next. When Benjamin Franklin drew the lightning from the heavens by his kite, when he carried the wire across the Schuylkill river and showed that communication with such a distance could be had by electricity, who ever

thought that Henry, Morse and other scientists would develop the grand idea, the spark of which was thus struck out by Franklin, into the electric telegraph, into electric lighting, into electric motion over a railway? Well, I cannot venture to enumerate what are to be the exhibits of electrical phenomena. And, when we find that the human voice can penetrate space to immense distances; that speech in such a room as this can be transmitted to a cylinder, recording every word and the tone of every word that is spoken, and that then—how long a time afterwards has not yet, I believe, been determined—that same cylinder can be unrolled and the words can be again uttered, and the speech, whether it be one of wisdom or of folly, be repeated to the world for good or for evil, as the case may be, what is the unfolding of the ancient papyri to such a wonderful discovery as this?

How, my associates, can we bring ourselves to realize what has been accomplished during our own lifetime in these respects? And yet the men of science are fearlessly looking forward, making, day by day, new discoveries in archæology, geology, palæontology, in chemistry, mechanics, and physics, with their great variety of applications.

And we, who are approaching the evening of life, and realize what we have enjoyed in so many discoveries and so much usefulness, cannot hope that we shall be permitted to see all the glorious developments that yet remain to be produced by the operation of the human mind, by the application of the principles which lie at the foundation of applied science. But when the time comes for our departure hence, I trust that we may all realize that we have been permitted to live in

an age characterized beyond all others by the useful applications of knowledge, and to be proud that such institutions as this have contributed to their promotion, have added to the intellectual wealth of society, and are prepared to go on for all time somewhat beyond the beaten pathway, but still tending higher and higher, under the wisdom of the Creator, who endows His human creatures with those faculties which enable them to look into His works and to be influenced by His word and spirit.

Proceedings at the Dinner.

The dinner was given at the HOTEL STRATFORD, S. W. corner of Broad and Walnut streets, Philadelphia, at 6 o'clock P.M., of the same day.

There were present the following gentlemen:

Richard L. Ashhurst,
William S. Baker,
Wharton Barker,
Daniel G. Brinton,
Arthur Biddle,
Martin H. Boyè,
William G. A. Bonwill,
John R. Baker,
Andrew A. Blair,
George W. Childs,
Robert Cornelius,
William C. Cattell,
Thomas H. Dudley,
Frederick Fraley,
Joseph C. Fraley,

William W. Griscom,
Traill Green,
Henry D. Gregory,
Inman Horner,
Edwin J. Houston,
Henry Hartshorne,
Joseph S. Harris,
Henry Hazlehurst,
William W. Jefferis,
George DeBenneville Keim,
William W. Keen,
William V. Keating,
John J. Keane,
M. H. Messchert,
James W. Moore,

Isaac C. Martindale,	William B. Rogers,
William V. McKean,	Charles E. Sajous,
John W. Mallet,	Furman Sheppard,
William F. Norris,	Albert H. Smyth,
Charles A. Oliver,	Monroe B. Snyder,
J. Sergeant Price,	Charles W. Shields,
Samuel W. Pennypacker,	Joseph B. Townsend,
Thomas C. Porter,	Heber S. Thomson,
William John Potts,	Lyon G. Tyler,
Henry Phillips, Jr.,	Richard Vaux,
William H. Pancoast,	Samuel Wagner, Jr.,
James W. Robins,	Richard Wood,
P. F. Rothermel,	Joseph M. Wilson,
Thomas B. Reed,	Charles S. Wurts,
Theodore D. Rand,	Sir Daniel Wilson.

The following Menu and Program of Regular Toasts was presented to each guest:

M E N U.

Hock.	Shrewsburys.	
Sherry.	Tortue Verte Claire.	
	Escalopes à la Turque.	
Champagne.	Timbales à la Parisienne.	
	Selle de Venaison.	
	Chicorée au Jus.	Pommes à la Brabant.
	Artichauts à la Bellevue.	
	Sorbet Menthe.	
Faisans Rotis.	Sauce au Pain.	Piments D'Espagne Sautés.
	Terrapin à la Philadelphie.	
	Salade Variée.	
	Fromage.	
	Pouding Glacé à la Philosophical.	
	Croquants.	
Liqueurs.	Fruits.	Café.
Cigars.		

REGULAR TOASTS.

The language of Science and Philosophy is universal, but adopts various dialectic forms to diffuse knowledge.

Prof. JOHN W. MALLET, M.D., LL.D., F.R.S.,
Representative from the Royal Society of
London.

All research into the Book of Nature has not discovered an erratum.

Sir DANIEL WILSON, LL.D., F.R.S.E., etc.,
President of the University of Toronto.

The successful pursuit of Science expunges error: it never antagonizes truth.

Hon. LYON G. TYLER, M.A., President of
William and Mary College.

Mental Analysis is the efficient solvent of many difficulties in Science and Philosophy.

Rev. CHARLES W. SHIELDS, D.D., LL.D.,
of Princeton College.

The labors and achievements of great teachers in Science and Philosophy live after them; these are their monuments.

Rt. Rev. JOHN J. KEANE, D.D., LL.D., Presi-
dent of the Catholic University of America.

At 9 o'clock the HON. RICHARD VAUX, as toast-master, on behalf of the Committee of Arrangements, proposed consecutively the regular toasts, and, introducing the first speaker, said :

FELLOWS OF THE AMERICAN PHILOSOPHICAL SOCIETY:—By direction of the President, it becomes my happiness to shorten the time of your expectation here. I will try to relieve you of some of the pains and penalties by stating that in a few minutes you will have some tobacco, the effect of which upon your intellectual capacities will enable you clearly to understand what I am about to say to you, and to appreciate far more fully the reply that will be made. I ask you, therefore, to fill the first toast: "THE LANGUAGE OF SCIENCE AND PHILOSOPHY IS UNIVERSAL, BUT ADOPTS VARIOUS DIALECTIC FORMS TO DIFFUSE KNOWLEDGE." If you doubt the truth of that sentiment, I will ask Prof. John W. Mallet, M.D., LL.D., of the Royal Society of London, to give you any reason why that is not true.

MR. PRESIDENT:—In accepting the invitation to the Royal Society to be present in the person of a delegate on this occasion, it was the wish of the President of that Society to do full honour to the invitation, and that one of its Fellows resident in England should cross the Atlantic for the purpose, but in the time at disposal for correspondence it was not possible to find one who could undertake at present the double voyage necessary. While I regret that the Royal Society is not more worthily represented, I cannot but feel it a high honour that it falls to my lot to appear as the delegate of the oldest scientific society in the world which retains its original form to the oldest of such societies in the New World of America. And the

pleasure which I feel in serving in this capacity is increased by remembering that—long resident in this hospitable country, though without having given up my birthright of nationality beyond the sea—I have also the honour to be a member of the latter of these two bodies.

The ties between the two are of older date even than the event in your history which you this evening commemorate.

A third of a century before its present Hall was first occupied by the American Philosophical Society, Franklin, the most illustrious of its founders, and afterwards its first President, was elected a Fellow of the Royal Society, which three years before had awarded him the Copley Medal in recognition of the importance of his electrical researches, and for more than twenty years the volumes of the Philosophical Transactions record, at no infrequent intervals, communications made either by him or through him on scientific subjects.

Even through the seven long years of war which ended in separating the American colonies from the mother country, the name of Benjamin Franklin annually appears in the "Home List" of Fellows, and so continues afterwards until his death. In a letter to Mr. Benjamin Vaughan, of London, dated 2d of November, 1789, Franklin says: "I have not received the Philosophical Transactions for the two or three last years. They are usually laid by for me at the Society's House, with my name upon them, and remain there until called for. I shall be much obliged to you, if you can conveniently take them up and send them to me"—thus showing his continued interest in the work of the society but a few months before his death.

On the other hand, the President of the Royal Society in 1789, and in all for forty-one years, a longer tenure of the office than that of any other President, was Sir Joseph Banks,

who in 1787 was elected a member of the American Philosophical Society, and at a meeting of the latter, on April 18, 1788 (Franklin presiding), returned thanks for his election and communicated "A very curious account of pure iron in a metallic (*sic*) state lately found in South America."

Not in membership alone, but also in scientific activity, does there remain evidence of early relations between the two societies. In the Philosophical Transactions for 1769 we find the "Account of the Transit of Venus over the Sun's Disc, as observed at Norriton in the County of Philadelphia and Province of Pennsylvania, June 3, 1769. By William Smith, D.D., Provost of the College of Philadelphia, John Lukens, Esq., Surveyor-General of Pennsylvania, David Rittenhouse, A.M., of Norriton, and John Sellers, Esq., one of the Representatives in Assembly from Chester county, the Committee appointed for that observation by the American Philosophical Society, held at Philadelphia, for promoting useful knowledge. Communicated to the said society by Dr. Smith, and to the Royal Society of London by Nevil Maskelyne, B.D., Astronomer Royal." And in the following year was published an "Account of the Transit of Mercury, November 9, 1769, observed at Norriton, Pennsylvania. By a Committee of the American Philosophical Society. Communicated by Benjamin Franklin, LL.D."

I am sure that now, a century later than the day on which your Society held its first regular meeting in its newly completed Hall, the feelings of good will between the two societies, and cordial desire for the continued scientific vitality and prosperity of both, are increased rather than abated. The Royal Society congratulates you on your entering upon the second century of corporate life in your accustomed meeting place.

In reading the words of the toast to which I am called upon to respond, the thought suggests itself that the century which ends to-night has, far more than earlier ages, seen these words become true, and true in a somewhat different sense from that which would perhaps most naturally have occurred to the members of your Society in 1789.

Then the symbols of the mathematician had indeed the same meaning for the eyes of men in every country, but save in this special field the stately and exact tongue of ancient Rome had scarcely ceased to be recognized as the only universal language of science and philosophy, requiring every one to come under its sway who would learn of his fellow-students or would communicate to them what he had to offer of newly discovered truth.

Since then the symbolic formula of the chemist, the stratigraphic section of the geologist, the microscopic photograph of the biologist, have all been brought to speak alike to every one who pursues the same line of investigation, and now the ever-increasing activity of the printing press and the telegraph tends more and more to render it a matter of small moment in which of the many forms of human speech a worker in science may originally put forth what he has to say: in how short a time will it be placed in intelligible form before the whole of the civilized world. The tapping of the armature to which science has given an articulate voice, or the gentle waving to and fro of the noiseless spot of light in a darkened room, speaks forth in the languages of all nations, and without irreverence may it be said that now "hear we in our own tongue, wherein we were born, * * * the wonderful works of God."

Familiar as is nowadays the remark that within the last century science has brought about the most marvelous exten-

sion of communication amongst men, it is perhaps to be doubted whether we yet see the full significance of this fact or appreciate its profound importance in the history of mankind. Yet how naturally, and by how simple an order of logical succession in the history of science itself, the "Letter of Benjamin Franklin, Esq., to Mr. Peter Collinson, F.R.S., concerning an electrical kite," published in Vol. xlvii of the Philosophical Transactions, is connected with the possibility of the message from Sir George Stokes, instructing me to be here to-night, which was darted westward a few days ago beneath the ocean's depth, with a speed that anticipated by hours the laggard turning eastward of the earth upon its axis.

As we think of the gradually expanding insight into the mysteries of nature which has come of scientific study in the passing years of the last century, of what was concealed from the workers in science in 1789, and is seen of all men to-day, we naturally wish that those who then saw dimly could share the larger measure of light which is given to us, and as naturally we think, and with some sadness, of the yet brighter light which those who are to come after us will undoubtedly enjoy. The words of Seneca suit our mouths as well as they did his: "*Quidem multa venientis aevi populus ignota nobis sciet. Multa seculis tunc futuris, quum memoria nostri exoleverit, reservantur. * * * Rerum natura sacra sua non simul tradit. Initiatos nos credimus: in vestibulo hæremus.*"

Such thoughts bring with them the seemingly opposite yet both together best results of the pursuit of science, a profound and exulting appreciation of the advance already made in knowledge of the universe spread out before us, and at the same time a yet more profound humility in face of the far greater ignorance which hides from us the more wondrous things beyond.

MR. VAUX: The next toast is, "OUR KINDRED SOCIETIES IN EVERY CLIME," and we would suppose that to that sentiment it was very easy to make a reply, but the difficulty was where to look for the replier. It seemed reasonable to think that the proper place to look for it was where arts and sciences were in a highly flourishing condition, so they sent to Boston, and Prof. Joseph Lovering, LL.D., President of the American Academy of Arts and Sciences, was requested to be present this evening and make a reply to this toast. He is not here. He wrote a letter which indicated, as I understood, that he would be here, but something has prevented his coming. I have, on behalf of the Committee, been requested to interpret this absence, but it is a very difficult thing to put the interpretation which I hope will be agreeable and acceptable to everybody here and at the same time acceptable to my distinguished friend, Dr. Lovering. The arts and sciences of New England are not to be present, and I have no reason to give why not. So the art and science of it is to leave me the excuse, and I make the excuse for him. Yet the art and the science belong to that part of the globe of which he is an inhabitant. Therefore, we will have the Art and Science omitted, and ask you gentlemen to drink to the third toast: "ALL RESEARCH INTO THE BOOK OF NATURE HAS NOT DISCOVERED AN ERRATUM." It seems to be a generally accepted idea by those who are philosophers and scientists that the best possible reply which could be made to that sentiment will be given to you by Sir Daniel Wilson, LL.D., F.R.S.E., President of the University of Toronto, and if he has found any one of those errata he will have the opportunity now to tell you which one it is.

MR. PRESIDENT AND FELLOW-MEMBERS OF THE AMERICAN PHILOSOPHICAL SOCIETY:—In the part which you have assigned to me in this Centennial Commemoration, I find myself called upon to deal with a subject the compass of which is wholly beyond my powers; as it is all too ample for the limited time available. In the eloquent address in which you, Mr. President, retraced the history of this, the oldest among the scientific societies of America, you found an hour too brief for a review of the events of the century which to-day completes its cycle; and now I find myself called upon, in the briefer limits at my disposal, to verify the entire Book of Nature, and demonstrate the faultless perfection of the record. Looking back over the immeasurable ages of the past, and turning to the equally incomprehensible vastness of the visible universe, hours, instead of minutes, would fail, in the most superficial effort at such a review.

Amid the brightness of this festive commemoration, the temptation is rather to leave the past unheeded, and to take the wings of fancy—or, better still, the intuitions of science,—and anticipate the marvels of the coming time; those fairy tales of science that surpass all the wonders of romance. But your behest must be obeyed; and it will perhaps most aptly meet present requirements if I select from the manifold phases which challenge our consideration two suggestive aspects of the comprehensive subject, which in some sense may serve to epitomize the past and the present for such brief review.

When the fiat went forth, formulated in words that might fitly constitute the motto of this, the oldest among the philosophical fellowships of the New World: "Let there be light!" the abyss flashed into cosmic brightness and beauty; and the illimitable depths of space, illumined with the splendor that enkindled suns, and awoke the myriad worlds to life, traced for

us the first page in the book of nature. Your theme invites our attention to it under the apt metaphor of a book; no chance medley of the materialist, or mere evolution of time out of chaos; but a volume of well-ordered method and sequence, revealing on every page the purposed design of its Author. Turning then to the pages of this ample volume, astronomy is the science which, dealing with the visible present, appeals even to the uncultured mind—to the Syrian shepherd, as to the Indian hunter on the prairies,—in proof of an all-mighty, an all-wise Creator. With upturned eyes, savage and sage alike peer into the immeasurable depths of space lighted up with its galaxy of worlds and suns, marshaled in such harmonious symmetry that they unmistakably reveal the evidence of design, order and law; the governance of a supreme Intelligence. Nor is the royal psalmist alone in learning from them the lesson of devout humility, as he considered the heavens, the work of God's hand; the moon and the stars which He has ordained; and realized the marvelous compass of that overruling Providence that can still be mindful of the meanest of His creatures.

The old Greek, perplexed though he was by the misleading complexities of a stellar universe, revolving, as it seemed to him, around our own little planet, nevertheless realized such a rhythmical harmony and beauty in the motions of the heavenly bodies, cycle on epicycle, orb on orb, that he listened if perchance he might catch some echo of the music of the spheres which seemed inseparable from that stately measure of their nightly round. The same fascinating idea is revived by our own Shakespeare, in lighter mood, when his Venetian lovers meet in the moonlit gardens of Belmont. I say, in its amplest sense, "our Shakespeare," for in this reunion with so choice a gathering of American friends it is pleasant to recall

the community which we realize in the matchless literature of our mother tongue. With an altogether peculiar bond of kinship, akin to that recognized among the remotest wanderers from the Hellenic fatherland; on the Euxine, at Cyrene, Massilia; or in furtherest colonial outposts on the Iberian shores; we, "who speak the tongue that Shakespeare spake; the faith and morals hold that Milton held," may surely claim to be one. And so, as such, with Shakespeare for our guide, we renew the fond imaginings of the old Greek; as Lorenzo, in that moonlight meeting with his bride, in "The Merchant of Venice," points her to the floor of heaven, all thick inlaid with patines of bright gold, and exclaims:

"There's not the smallest orb in all the heaven
But in its motion like an angel sings,
Still quiring to the young-eyed cherubim,
Such harmony is in immortal souls;
But while this muddy vesture of decay
Does grossly close us in we cannot hear it."

Thus, as it would seem, not alone the gaze of the wondering on-looker, but the combined research of ages, concur in the verdict which your thesis affirms. We, too, in the spirit of the old Greek, may assuredly recognize the perfect harmony and order which everywhere reveals a Creator's hand. Alike in the splendor of that universe which greets our eyes, as with optic glass we strive to fathom its mysteries and to interpret its chronicling as a page of Nature's volume; and in the minutest atom, that the microscope reveals, we recognize the consistent harmony of a Divine law-giver. For the same law that moulds a tear, and shapes the dew-drop, holds the planets in their course, and regulates the form and motions of suns and worlds. The astronomer, with ever-increasing aids of science, penetrates into remoter depths of space only to bring back

fresh evidence of an all-pervading harmony amid its countless members. In confident reliance on the orderly movements of the planets, Leverrier and Adams independently wrought out results by means of which the telescope of the observer was pointed to the unheeded speck, invisible to the naked eye; and the planet Neptune was added as a new member of our solar system. The science of Chemistry, too, unexpectedly directing its operations to a sphere which had hitherto seemed to lie wholly beyond its province, by means of spectrum analysis brings back to us the reassuring disclosure that, amid endless diversities in their combinations, the remotest of those suns that light up the firmament are fashioned of the same elements as this little planet-home of man. Such are some of the teachings of science. But even the untutored eye sees enough in that mysterious vault that nightly spans for him life's fleeting hour, lit up with the splendor of its myriad suns, and the star-strewn milky-way, to realize that no errata need be appended to the volume of nature. It may be that every star is the centre of a system of worlds, the abode of intelligences more gifted than we are to interpret the wondrous volume; but this at least we do know that they shine for us, lighted up from the same source which enkindles the central luminary of our own little group of planets; stirs our earth in its winter's sleep; quickens the buried seed, and the dormant animal life; and is but another aspect of that force which moves the worlds.

Thus we recognize the indices of an all-pervading harmony, disclosing to every eye evidence of rule, of law, and so of the Divine law-giver, alike in the orderly movements of suns and planets, and in the mysterious wanderings of the comet that blazes in the splendor of its perihelion and then returns in darkness to unknown depths of space. This is for us a living present. But, so also, in another chapter of the volume of

nature we learn of the same harmonious reign of law through countless ages. Geology is the record of the past; and with its aid I invite you to turn for a moment to that testimony of the rocks which the palæontologist has deciphered for us; testimony which embodies the history of life through all the æons back to the eozoic dawn. Biologist and palæontologist had alike recognized the orderly progression, as, in apt accordance with your metaphor, they turned over page after page of graven strata, till the record of life closed—or seemed to close,—in the azoic rocks. But the great naturalist, Charles Darwin, who so recently passed away, has revolutionized biological science with the demonstration of that process of evolution which has guided all the manifestations of life from the lowest to higher forms. Here accordingly a new reign of law appears, as we recognize one after another of the progressive steps through which, in the calm, unresting process of evolution, life has advanced onwards and upwards into ever more complex forms, through countless ages fashioning the present out of all the past. Yet here I, for one,—I know not how far others may sympathize with me,—but I am constrained to pause upon the threshold of that essentially distinct sphere of the psychologist where man, with reason as his distinctive attribute, stands apart from the whole irrational creation. It is not as a mere matter of sentiment, nor even because of any too literal reading of the narrative of creation, when man “became a living soul,” that I feel constrained to withhold assent to the hypothesis of the evolution of mind. By no inductive process does it seem to me possible to find the genesis of reason in any manifestations of intelligence in the brute creation. The difference between a Newton and an Australian savage is trifling when compared with the great gulf that separates the latter from the highest anthropoid. I look in vain in all the many mani-

festations of instinct or rationality in the latter for any germ of a moral sense, of a spirit of religious worship, or the anticipations of that higher life and immortality, which Socrates, Plato, and the wisest of heathen philosophers shared with Paul and Augustine, and which are dimly present even in the savage mind. I feel constrained to reject, even as an hypothesis, the gift of reason, and the "living soul," by any conceivable process of descent. All the arguments based on heredity and environment, instead of helping to account for the exceptional genius of a Plato, an Aristotle, a Dante, a Shakespeare, or a Newton, only make more obvious the incompatibility of such manifestations with any evolutionary theory. Geology may reveal the onward march through countless ages, refashioning continents, and advancing in orderly progression from the lowest to ever higher organisms. One common plan of structure may be traced throughout geological time, amid all the manifold diversities of vertebrate life; even as one law is found to pervade and control the whole visible universe; but

"Though worlds on worlds in myriad myriads roll
Round us, each with differing powers
And other forms of life than ours :
What know we greater than the soul ?"

Life is as great a mystery as ever; and that which humanity comprehends as its immortal essence can have no relation to any progressive development of mere physical structure. The mind is the standard of humanity. Man alone, savage and civilized alike, looks before and after. Nature and experience alike confirm the radical distinction between him and the irrational creation. Psychology can only know the physical as subjective. Nevertheless in that faculty of reason: the distinctive essential of man, whereby he is able, not only to look forth on the visible heavens and realize in some

faint degree the cosmos, but to apprehend its lesson of humility: we read the brightest of all the illumined pages of the book of nature, and find no flaw. The very fact that "this brave overhanging firmament; this majestical roof fretted with golden fire," expanded before our nightly vision, seems to us infinite in its compass, is in itself the index of an apprehension that enthrones reason apart from the highest attributes of irrational life. The physicist and the metaphysician have diverse conceptions of space; but practically, for us, the impossible is to conceive of limits to the universe. Imagination speeds from star to star through all the fields of space, guided by the strictest mathematical induction, and finds everywhere the same majestic harmony. No chaos lies behind the heavens, nightly revealed anew in all their mystery as evening draws her azure curtain athwart the sun. It is indeed the garish day, with its mundane round of petty cares, that curbs the wings of fancy, blinds the eye of faith, and shuts out heaven from our view. But who can set bounds to that mighty vision? If we sphere space, what lies beyond it? Still law, order, harmony; one overruling all-pervading influence, one Divine purpose. What can be behind it but God:

"One God, one law, one element,
And one far-off divine event,
To which the whole creation moves."

MR. VAUX: Dr. Wilson has given you a most able effort to discover errata, and I think all of you will agree that, after such a brilliant speech, full of so much science, philosophy, learning and culture, we will have to give up the idea that there is an erratum anywhere in the science of philosophy. But in order that you may have a counterpart in some degree to this

address, where the erratum has failed to be discovered, I propose to present to you now, another question which is somewhat akin to the one you have already heard discussed. It is found in these words, and it is the toast which I ask you to drink: "The successful pursuit of Science expunges error." That is the reason why Dr. Wilson could not find the erratum. "THE SUCCESSFUL PURSUIT OF SCIENCE EXPUNGES ERROR: IT NEVER ANTAGONIZES TRUTH." In order that you may hear an equally brilliant address upon this view of the subject I beg to call upon the Hon. Lyon G. Tyler, M.A., President of William and Mary College, to respond.

MR. PRESIDENT AND GENTLEMEN OF THE AMERICAN PHILOSOPHICAL SOCIETY:—To be called upon to respond to a toast of the character of that just proposed is a compliment which I highly appreciate. Coming as a stranger among you, I might naturally feel appalled at the magnitude of the sentiment it conveys. Rome, it is a trite and true saying, was not built in a day, nor could I in a ten or fifteen or twenty minutes speech do justice to a sentiment which began its victorious crusade against error when the centuries were young, but which now stands upon the starry summits of success, overlooking all human thought and human action.

Yet, Mr. President, I am glad that this opportunity is presented to me this evening. We, Virginians, are often accused of vanity, but I am ready here to-night to admit, while I claim that we are the best people, that the Philadelphians are the next best! I am even disposed to go further than that. I had a brother, Robert Tyler, who lived in your midst some twenty odd years as Prothonotary of the Supreme Court of the State; was Chairman of the Democratic Executive Committee of the

State of Pennsylvania ; was the fast and firm friend of that good old man, James Buchanan, and who did better than that in taking a wife from among the Pennsylvanians ; therefore, I can claim to have a kinship with the Philadelphians, and admit them into the Virginia fraternity along with me !

The cordial reception which has been extended to me since my first arrival here ; this feast of reason and flow of soul, where philosophy presides over the inner man, science holds the wine cup, and Philadelphia, the city of the gods, sacred to independence and fraternal love, gives the welcome, are, in the language of the Irishman, sufficient to make my face one broad smile from the crown of my head to the sole of my foot. I am glad I stand here on this occasion, and say to you, as an humble representative of William and Mary College, that that ancient institution, which gave to the American Philosophical Society a President, which gave to science the precious gift of her Jefferson, and to the country at large her Monroe and her Marshal, is full of fraternal greetings on this centennial occasion to the most ancient philosophical society in America. Veterans in a grand common cause, it is but right that they should meet around a common table and pledge each other's health now and forever.

Although, Mr. President, the antecedents of William and Mary College go back to the year 1619, when the first project of a university was started in America, its charter was not obtained until the year 1693, just fifty years, a semi-centennial, ahead of the foundation of this association ; and in this age of centennials and semi-centennials (and I understand that the American Philosophical Society has had a full share of them already in the past), it may be worth while to know that old Benjamin Franklin, the founder of this Society, on the occasion of a personal visit to Williamsburg, received, in the semi-cen-

ennial year of his age, in 1756, the proud honor of Master of Arts from the College of William and Mary, the first degree ever conferred by that institution on any man. Thus Virginia and Pennsylvania united in doing honor to the man whom Lord Chatham pronounced "not only an honor to the English people but to human nature."

In Franklin's diploma, a copy of which is preserved upon the college records, the faculty declared that their action had been taken in order to show to the Virginia youth an example of a truly noble man, or, as it is better expressed in the Latin, *Juventuti Virginiensi exemplum valde egregium*.

Nor, if we can judge by subsequent events, was that example lost upon those for whom it was intended. As Franklin was the first man to make science, which had been previously merely "an object of admiration in temples and palaces," a handmaid to the common arts and uses of life; as he was the first to teach that she should be made to minister to the wants and comforts of society; as his whole life and his whole action enunciated a practical spirit; so twenty years later, when the rebellion of the colonies ensued, that practical spirit was shown in thousands of Virginians formed upon the model of the illustrious Pennsylvanian's example; in a Washington who led our army to victory, in a Jefferson who reformed our laws, and in a Marshal who construed them—all of them like Franklin eminently plain and eminently practical men. And that spirit thus set working, according to the sentiments of this toast, *expunging error and maintaining truth*, has gone on operating to the present day; it has produced a Fulton, a Morse, a Maury, a Bell and an Edison, until to-day we stand in not only what we may pronounce the age of centennials, but "an age of ages" whose common maxim in all the departments of life—in history, government, politics and poetry—is :

"The greatest production in the shortest time and at the least cost, the best markets and the quickest returns."

The marvels of our country's progress have been, as we all know, the theme of constant oratory; but so unparalleled has that progress been that even the language of wise and sagacious statesmen has failed to portray the glorious and gorgeous destiny of the States. I remember two instances in our national history which conspicuously illustrate this failure to appreciate the giant forces at work in our midst. In 1824, as sagacious a statesman as President James Monroe, as much as he had seen of the progress of the country in his day, proposed to colonize the Indians of Western New York in Wisconsin, under the impression that it was a part of the country so remote that they would not be disturbed for many years to come; yet in eighteen years, Wisconsin, no longer naked in the savage aspect of her wilderness, but clad in the noble garments of a refined and pure civilization, was knocking at the doors of Congress for admittance as one of the free and sovereign States of this Union. And in 1825, Thomas H. Benton, a distinguished Senator of the United States, who, like science, prided himself on being "an expunger" in General Jackson's time—you remember the resolution that he expunged in the Senate—pointed to the ridge of the Rocky mountains as "the convenient, natural and everlasting boundary of the Union;" yet in twenty-two years the eagle of the Union, like the true bird of Jove, had winged its flight across those majestic ranges, over boundless plains and endless forests, to rest his pinions upon the golden sands of California and bathe his royal plumage in the waters of the great Pacific.

However much the men of America have differed in opinion upon the issues of politics and questions of party; however much the New Englander condemned and disapproved the war

of 1812 declared by a Southern administration; however much the same New Englander disapproved and condemned the annexation of the imperial domain of Texas, opening up the great and noble West; and however much the men of the South condemned, in 1861, the action of the North in invading their firesides and carrying desolation on wings of fire far and wide through their borders, yet I thank God that in the result they are all of one opinion. The New Englander is proud of the fame won by the gallant Yankee tars upon the billowy deep in the war of 1812; his ships and his railroads have peopled the barren Mexican territory, won by the policy of annexation, with a busy, industrious and thriving population; and the men of the South rejoice to-day in the preservation of the Union of our fathers, and unite in the hope that God's infinite mercy may preserve it for ages to come!

At the bottom of all our progress is science, "the expunger of error" and the maintainer of truth, whose laws are two-fold—first, that the operations of nature are regular and immutable, and, second, that they are one. Aye, there have been ages, and those ages are not remote, when men groveled in the worst forms and orders of superstition; when, as Buckle relates, in Scotland, two hundred years ago, to be in a constant state of affliction was considered to be the prime object of existence; when the most innocent relaxations and amusements were prohibited; when it was considered a sin to hold market on a Saturday or Monday because the preacher said it was so near Sunday; when that innocent amusement of our youth, swimming, was considered unlawful for Christians at any time, even on week-days, and cases were cited from the pulpit how God had shown His disapproval of this carnal practice by taking away the lives of divers reckless youths while engaged in it; when a minister, in order to teach this doctrine of affliction

and self-torture declared that David had never so sweet a time as when he was pursued like a partridge about the hedges by his beautiful son, Absalom; and when bear-baiting was prohibited, not because of the pain it gave the bear, but of the pleasure it gave the people.

But those times have passed forever. Science took up the cause of suffering humanity, and by familiarizing men with the first of its laws, by familiarizing them with conceptions of order and regularity in the operations of nature, taught that God's work was too infinitely grand, too majestically perfect, to require His interference every day to keep the system going, and that "every gratification of sense and of intellect was justifiable which stopped short of injury to the man or injury to others."

But it is the second characteristic of science that we are interested in more particularly—the unity of its laws, manifesting itself in different forms and forces, which are all one, that holds the destiny of the future. The fact is, the great future which lies ahead of us is one grand unity of results; and, in words not original with me, this age is to go on growing better, purer and faster, building schools, doubling its power of machinery, trebling its exports of cotton and woolen goods, and "sending forth its freights as missionaries of truth to all lands," until by the homely influences of modern trade, which laugh at the tinsel of ancient parade, by the interchange, if you please, of tender courtesies between corn and cotton, by the billing and cooing of account books, ledgers and bills of exchange, by the electric whispers of telephonic messages, the consummation of science is to be witnessed in the unification of all things, in the destruction of theologies of narrow, bigoted creeds, blood stained through the centuries, and in the knitting together of all men in one religion breathing the pure spirit of

God; in the quenching of local jealousies and sectional animosity—not by the obliteration of national or State lines, nor by the destruction of man's individuality, but rather by the growth of a public opinion which shall be crystallized in a universal law founded on the principle that no man can be benefited at the expense of another without in some measure injuring himself; and finally, gentlemen, in the confederation of all nations—and the sudden fall of Dom Pedro, in Brazil, gives color to the thought—into a grand, harmonious Republic formed upon the model of our own Union of indestructible States, flying a flag, not of forty-two stars, but one blazoned with all the stars of heaven, thus realizing that sublime and divine condition of the world which the rapt poet sees in his vision :

“When the war drums throb no longer,
And the battle flags are furled,
In the Parliament of man,
The federation of the world.”

I have only now to thank you for the kind and cordial attention which you have given me, and to say to you that old William and Mary College has arisen in strength like the Phoenix from her ashes, and that she numbers upon her roll, in the second year after a suspension of seven, 172 students, and that her number will run up in the next two or three years, I predict, to three and four hundred. I feel from the letters that we have received from all parts of the country—from the pines of Maine to the magnolias of Alabama—that we have the heart of the Union with us. In three years hence, we celebrate the bicentennial anniversary of William and Mary College, and my last words are to invite all here present to be there on that occasion; and if we cannot show you any great public halls like what you have here in Philadelphia, nor any

great public buildings, we can at least atone in great measure for the lack of these things by giving you a hearty old Virginia welcome.

MR. VAUX: After the eloquent discourse which we have heard upon the preceding toast, it does seem that there should be now brought to your attention a rather different philosophical and scientific view of the reasons why Science and Philosophy have been thus apostrophized, explained and defended. As you all will admit, the task, which I propose now to present, in its accomplishment is one of difficulty and requires to be handled by a master-mind. The Committee, in viewing the subject in this light, has to ask your attention to the distinguished scholar who has been selected to reply to the toast now propounded to you: "MENTAL ANALYSIS IS THE EFFICIENT SOLVENT OF MANY DIFFICULTIES IN SCIENCE AND PHILOSOPHY." If there is one man in America who is competent, even in the few minutes which are allowed on this occasion, to perform this task with brilliant effect, it is the author of "Ultimate Philosophy." I call upon Rev. Charles W. Shields, D.D., LL.D., of Princeton College, to reply.

MR. PRESIDENT AND GENTLEMEN OF THE AMERICAN PHILOSOPHICAL SOCIETY:

When I accepted the invitation to this banquet I knew that it involved a rare privilege and a high honor, but I accepted it with some misgivings. I felt and still feel quite unable to respond in fitting terms to the sentiment which my learned and witty friend has announced so kindly in connection with my name. I am glad to find that he sympathizes with me fully in the difficulty of the theme.

It is true that I have been an earnest student of Science and of that Philosophy which is the science of science during the time that has passed since I left Philadelphia—a city in which my early labors found generous appreciation, to which I became attached by the strongest ties of my life and which I have ever remembered, as the exiled Greek remembered his *dulcis Argos*, as the home of art, and letters, and refinement. But of the studies of these past years it would not become me here to speak. If any difficulties in science and philosophy have been solved by them, they have not been in vain.

It is implied in the toast, to which I am speaking, that there are difficulties in Science and Philosophy and that mental analysis may help to solve them. It is certain that there are difficulties in Science. If we analyze it into its component elements we shall find that it involves much faith as well as knowledge; it involves faith in the uniformity of nature, a uniformity which has never been proved and which can never be proved except within the narrow limits of our own experience, and which even there is disproved whenever you perform the miracle of lifting a stone from the earth; it involves faith in our own cognitive faculties, which the sceptic will claim to have been delusive and which, as a matter of fact, have misled mankind for ages; it involves faith in some ultimate Power or Principle upholding this assumed uniformity of nature and this assumed trustworthiness of our faculties, and our agnostic friends tell us that this ultimate Power or Principle is simply unknowable, inconceivable, a bundle of contradictions.

On the other hand, there are also difficulties in Philosophy. If we analyze its various pretensions we find a large amount of ignorance as well as knowledge. The physical philosopher looks with wonder at the marvelous discoveries of modern

science in the realms of physical inquiry, but he soon sees that they are but as a vanishing point before the infinite unknown, a grain to the mountain, a drop from the ocean. The metaphysical philosopher dreams that he has solved the problem of the universe in terms of mere logic, but this is a problem which, if solved at all, could only be solved by an infinite Intelligence. The theological philosopher claims to have penetrated by means of revelation even to the secret counsels of the Creator Himself, but that very torch of revelation only shows him mysteries still unrevealed and unrevealable, and so our gnostic friend at last lands us in absolute ignorance and admits that the ever knowable is still the ever unknowable.

Is it not evident that both parties, both schools, need more of the caution of true science and of the humility of true philosophy? The simple fact is that the Agnostic and the Gnostic are better friends than they know, and cannot do without each other; they are only at work upon opposite segments of the same arch, which now seem fragmentary and hostile, but may be destined to meet as in the keystone of perfectible science upheld by reasonable faith.

Mr. President, I must not forget that I represent an institution which like this one is devoted to the advancement of science. Princeton College aims and claims to be a contributor to the existing stock of human knowledge as well as a distributor of knowledge through the channels of education, and to-day it may well congratulate a kindred organization with which in former times it has had at least one magnetic link of communication. Its ever-honored professor, Joseph Henry, as you know, followed in the steps of your illustrious Franklin, pursuing and completing the same physical researches. If I mistake not, his splendid discoveries were first announced to this Society, and put on record in the beautiful hand-writing of

its Secretary, Judge Kane, who welcomed the new knowledge with all his intelligent enthusiasm. It was from the lecture-room of Professor Henry that the first telegraphic wire was carried across the college campus at Princeton. That wire has since been carried by other hands around the globe. It was reserved for him to enjoy only the fame of those researches from which the whole civilized world has received so many material benefits. Like Agassiz, he was so strict a votary of science that he could not merge the discoverer in the mere inventor. He ever sought knowledge for its own sake and with no selfish motive. Science in his view was the birthright of humanity. And his philosophy was broad enough to include religion as well as science within its scope. Without posing in any religious character (if I may so express it) among his scientific brethren, he ever exemplified that full accord of exact knowledge with rational faith which distinguishes other members of this philosophical body.

If the American Philosophical Society has included in its ranks the self-sacrificing votaries of science, it has also included in them, and still includes, its munificent patrons as not less worthy a place in the same goodly fellowship. We recognize one of them sitting at this feast of reason whose praises I must speak wherever my tongue is loosed; a valued friend who has shown generously his appreciation of Professor Henry's disinterested services, as he has shown his appreciation of everything else that is noble and praiseworthy; a loyal Philadelphian, without whom no assembly of Philadelphians intent on any good work would be complete—Mr. George W. Childs.

What a noble monument does the American Philosophical Society present to us to-day! As we sat this afternoon, spell-bound listeners to the story of its origin and growth, so eloquently and touchingly told, who among us could fail to perceive

the imperishable worth of human science? Empires have risen and fallen in the Old World; the thirteen colonies have become the United States; the United States, surviving the shock of a civil war, have expanded over the continent; but this Society meanwhile has pursued its peaceful mission of accumulating and diffusing knowledge, unchanged amid surrounding changes.

What wonderful stores of knowledge it has gathered into its garner during these past hundred years! The heavens, the very heaven of heavens, have been unveiled and the birth and growth of worlds exposed to our view. The earth in all its past history has been retraced, and its extinct dynasties of life recalled as in a marvelous resurrection. Man has been placed at the summit of living nature with his evolving races, languages and arts. The soul itself, turning its powers in scrutiny upon itself, has been tracing the logical laws and processes by which it has accumulated this immense store of knowledge. Society, in the ranks of its humblest toilers, as well as in these higher circles of the learned, has begun to offer problems of which our wisest statecraft has not dreamed, and for the moral and religious solution of which the Protestant members of this philosophical association will welcome the aid of their Roman Catholic fellow-members, of whom I am glad to find we have a distinguished representative here to-night. Even theology is becoming the study of scientists as well as divines. And philosophy is collecting from all the sciences the materials for a complete system of knowledge.

What illustrious names have been enrolled in the transactions of this Society during the century passed! The choicest and brightest intellects of all lands have been gathered from all the sciences and crowned with your laurel as kings in the realm of knowledge and benefactors of mankind. Permit me,

in closing my brief remarks, to join together two of these great names as **alike** worthy of immortal memory: **BENJAMIN FRANKLIN** and **JOSEPH HENRY**—if the one, as it has been boldly said, seized the lightning in its course from heaven, the other has sent it forth as a vehicle of intelligence throughout the earth.

MR. VAUX: GENTLEMEN:—While you have been delighted, charmed and instructed by what you have heard from the oldest, and the uninterruptedly continued institutions of learning by their representatives at our festive board this evening, I think our feast of reason cannot well be concluded until you have had an opportunity to hear an equally learned address from the last-born of the learned institutions of the continent on which we live. Within the last few days, since this moon began to wane, there has been born in the Federal metropolis an institution of learning which, from all that we can know of its parentage and its purposes, is destined to be one of the most marvelous creations of this age, and in order that you may not go away to-night believing it is the old institutions which have the monopoly of science and philosophy, let me ask you to drink to the last toast: "**THE LABORS AND ACHIEVEMENTS OF GREAT TEACHERS IN SCIENCE AND PHILOSOPHY LIVE AFTER THEM; THESE ARE THEIR MONUMENTS.**" To so appropriate a toast gathered from all the learning that has come down to us through the Latin race, marvelous in its character, splendid in its condition, wonderful in its elements, eternal in its truth, let me ask you to listen in reply to the Rt. Rev. John J. Keane, LL.D., President of the Catholic University of America.

MR. PRESIDENT AND GENTLEMEN:—In the name of the Catholic University of America, I offer respectful homages and affectionate greetings to the American Philosophical Society, the youngest to the oldest of American institutions for the advancement of learning. In its name, I return heartfelt thanks for the broad-hearted liberality manifested by this invitation to your centennial celebration, and for the over-kind words with which my unworthy self has been introduced to you to-night. Such a spirit we honor as worthy of this City of Brotherly Love, and worthy of your great founder, Franklin, who was noted among all his contemporaries for the universality of his human sympathies, and who numbered among his friends and among his collaborators for our country's liberties our great patriot bishop, John Carroll.

In the name also of our University, I heartily endorse the sentiment embodied in the toast to which I have been so kindly asked to reply. We welcome and hail every advance in philosophical research and in scientific discovery, and we pay homage to the great men whom God makes use of for their achievement.

In the establishment of our own University, our purpose in opening our work with the faculty of Divinity has been to place the great God, the all-creating Father, in the very centre, in order that around him all philosophical and scientific studies may be harmoniously grouped and may move in order like the planets around their central sun; and we are firmly convinced that he not only deserves well of his fellow-men, but deserves well of Almighty God, who in any way adds to the store of human knowledge, since of God it is said that "He is light and there is no darkness in Him."

The inspired wise man has said that "man has been made a little lower than the angels and has been crowned with glory

and honor, and placed over all the works of the Creator's hands." He is therefore the divinely crowned monarch of creation; and whoever subjects to man any power of nature or brings under his dominion any of nature's realms is carrying out the behest of the Creator, is giving to man the monarchy that is his due, and should be numbered among the conquerors to whom the world pays homage.

"The heavens show forth the glory of God and the firmament declareth the work of His hands." He therefore who gave us the telescope that we might see deeper into those immensities; he who gave us the spectroscope that we might more intimately know their distances, their motions and the very mechanism of their construction; he who taught the photographic camera to fasten on an unfading retina what the great eye of the telescope beholds of solar convulsions or of starry depths—all these are bards who, whether they advert to it or not, chant to mortal ears the glory of the Creator, and are honorable in His sight and in the sight of all men.

The beneficent Father above has Himself united and almost identified well-doing to our fellow-men with love and dutifulness to Himself. Honored, therefore, of men and of angels should be those patient delvers in the realms of science, who teach us how to guard our health and our lives against the myriad enemies ever assailing them, and who cure or soothe any of the ills that humanity is heir to.

Man must learn from his fellow-men. Thought begets thought. He, therefore, is a benefactor whom all should bless who taught mankind to fasten thought in writing; and he who, by the printing press, scatters it to the ends of the earth; and what shall we say of that marvelous invention, on which your venerable President dwelt so eloquently to-day, which shall give us not only the stored-up thought, but even the

human voice that, perhaps centuries before, gave it utterance?

The good Father again has left to the intelligence and the free-will of His creatures, under the guidance of His Providence, the working out of the social problems which harmonize and organize the living of men together in human society. He is therefore an agent of our Father's care, as well as a benefactor to his fellow-men, who makes clear any great social principle that guides men in their social organization. Our Declaration of Independence is not only our country's Magna Charta, earning for its framers and signers our country's everlasting love, but it is an enunciation of social principles, standing like a great beacon light on the pathway of man's social advance, calling for the gratitude of mankind forever.

Human action depends for its wisdom and its utility upon its agreement with the great principles of truth and of duty which are the bases of philosophy. Any brilliant genius who would lead astray from those great principles is an *ignis fatuus*, who must lead men into the mire, whether it be social or domestic, or political organization that is in question. They, on the contrary, deserve all honor from God and from men who have power to declare those great principles with a voice that all must hear and heed, and who hold them up like a torch to guide the advance of mankind in those paths of morality and of religion in which alone, as our immortal Washington has warned us, can our country's prosperity be hoped for.

All honor therefore to the men who, in any realm of scientific, of philosophical, of ethical research, are doing something to increase the store of human knowledge, and all honor to this Association which gives to such men so efficient assistance.

In listening this afternoon to the address of your honored President, I felt, as he truly expressed it, that I was lifted up into another atmosphere from that which I had been breathing in the streets below. Never in my life did I feel more impressed with the sense of reverence than when carried back by the eloquence of this worthy venerable octogenarian to those who laid the foundations of our country's liberty. I honor the man, and I honor the Association over which he presides. I thank them again and again for the pleasure and the honor bestowed upon me this evening, and in the name of our University I pray that when your second centenary shall be celebrated you may have gathered around you, as you have to-day, the representatives of all the associations of this land and of other lands to pay you homage.

MR. VAUX: GENTLEMEN:—The duty which has been imposed upon me is now ended, and I deliver this most imposing company over to the guidance of the President of the American Philosophical Society.

In bringing the exercises of the evening to a close, President Fraley said:

MY FRIENDS: How shall I thank you for all that has occurred around me to-day? We have gathered in our ancient hall the resident members of the Society. We have brought around us our honored associates and friends from other States. We have shaken hands together over the memories of the past. We have indulged in the hopes of the future, and we are now about to separate in those fraternal relations which grow out of the common brotherhood of men, the participation in universal pursuit after knowledge, the indulgence of the

hope that the years to come will be crowned with new triumphs of discovery, with new stores of accumulated knowledge.

Looking forward to that ultimate consummation and bliss, which is promised to all those who look to the Supreme Intelligence that guides men in the paths of duty and in the performance of good works, glorious as the memories of the past are, bright as the hopes of the future are, I bid you now, in the name of our honored Society, a farewell for the present, and hope for many reunions of this brotherhood of friends ; and I pray that the blessing of that Great Creator and Preserver of the Universe may rest upon you, and that we may realize in the great hereafter the fellowship that we have been permitted to enjoy on earth. The hour has now arrived for our temporary separation, and I bid you an affectionate farewell.

Bishop Keane proposed the health of Mr. Fraley, which was drunk standing.

LAWS
AND
REGULATIONS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY,
HELD AT PHILADELPHIA,
FOR PROMOTING USEFUL KNOWLEDGE,
As finally amended and adopted, Dec. 18, 1885.
TOGETHER WITH THE
CHARTER OF THE SOCIETY,
AND
A List of its Officers and Councilors.

PREPARED BY
HENRY PHILLIPS, Jr.,

A Secretary of the Society.

PHILADELPHIA:
Printed for the Society.

—1890—

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THE LAWS

OF THE

AMERICAN PHILOSOPHICAL SOCIETY.

CHAPTER I.

OF THE MEMBERS, AND MANNER OF THEIR ELECTION.

SECTION 1. The election of members shall be by ballot, and shall form part of the stated business of the meetings on the third Fridays of February, May, October and December.

2. A member may, at any meeting, nominate in writing a candidate for membership, and the nomination so made may, in like manner, be concurred in by other members. The board of officers and council may also nominate candidates for membership; and such nominations shall be certified to the Society by minute thereof in writing, attested by the clerk of said board.

3. No person shall be balloted for, unless his nomination, with the names of the members proposing him, or the minute of the board of officers and council, made as aforesaid, shall have been publicly read to the Society at the two stated meetings preceding that at which the balloting takes place. Nor shall any person be deemed duly chosen unless three-fourths of the votes given shall be in his favor.

4. Before entering upon an election for members, one of the secretaries shall read the names of the several candidates; and any member may then, for the information of the Society, speak to their character and qualifications for membership.

5. The names of the candidates and their places of abode shall be designated on the ballots, and the names of the officers shall be called in the order of their seniority by the acting secretary, the members thereafter depositing their ballots. The name of a candidate struck from a ballot or not voted for shall be considered as a vote adverse to that candidate.

6. After all the other business of the meeting shall have been disposed of, the ballot box shall be opened by the secretaries, or in their absence by two tellers, to be appointed by the presiding member, who shall then declare to the Society the result of the poll.

7. The members are mutually pledged not to mention out of the Society the name of any candidate proposed, nor of any withdrawn or unsuccessful candidate ; and the papers containing the names of the unsuccessful candidates shall be destroyed immediately after the election.

8. Every member, upon his introduction into the Society, shall be presented to the presiding officer, and shall subscribe the laws.

9. Such members as reside within ten miles of the hall of the Society, and such other members as desire to vote at the meetings and elections, shall pay an admission fee of ten dollars, and annually thereafter, on the first Friday of January, a contribution of five dollars. The payment of fifty dollars at one time, by a member not in arrears, shall exempt him from all future annual payments.

10. Members-elect, residing within ten miles of the hall, shall lose the right of membership unless they subscribe the laws and pay their admission fee within one year after their election. Any member liable to an annual contribution, who shall neglect or refuse to pay the same for the term of two years, shall be notified by the treasurer in writing, on or before the second Friday in January after such default, that his rights as a member are suspended ; and, in case the said arrears, together with the contribution due on the first Friday in January after such notice, shall not be paid to the treasurer on or before the said last-named day, the membership of such

defaulting member shall be forfeited, his name stricken from the roll, and reported to the Society by the treasurer.

11. On the Society being informed of the death of a member, the fact shall be entered on the records, and a member may be appointed to prepare an obituary notice of the deceased.

12. The obituary notices of members shall be read to the Society, and they shall be bound together whenever they are sufficiently numerous to form a volume.

CHAPTER II.

OF THE OFFICERS, AND MANNER OF THEIR ELECTION.

SECTION 1. The officers shall be a patron, a president, three vice-presidents, four secretaries, three curators, a treasurer, and twelve councilors.

2. The governor of the State of Pennsylvania shall be, ex-officio, the patron of the Society.

3. On the first Friday of January in every year, between the hours of two and five in the afternoon, as many of the members as shall have paid up their arrears due to the Society, and shall declare their willingness to conform to the laws, regulations, and ordinances of the Society, then duly in force, by subscribing the same, and who shall attend in the hall, or place of meeting of the Society, within the time aforesaid, shall choose by ballot, one president, three vice-presidents, four secretaries, three curators and one treasurer; and at the same time and place, the members, met and qualified as aforesaid, shall in like manner choose four members for the council, to hold their offices for three years.

4. No person residing within the United States shall be capable of being president, vice-president, secretary, treasurer, or member of the council, or of electing to any of the said offices, who is not capable of electing and being elected to civil offices within the State in which he resides. Provided, that nothing herein contained shall be considered as intended

to exclude any of the officers or councilors, whose time shall be expired, from being reelected, according to the pleasure of the Society.

5. No one shall be esteemed a qualified voter at the election, who has not subscribed the laws and paid the admission fee, or who is in arrears to the Society, or has not attended a meeting during a whole year next preceding the election.

6. Of the day, hour, and place of election, notice shall be given by the librarian at least one week before the day of election, in such one or more of the public newspapers of the State of Pennsylvania, as the Society shall direct.

7. Before opening the election, the company that shall be met at half an hour after two, shall appoint three members of the Society as judges of the election, and also two clerks or secretaries for taking down the names of the voters.

8. In case of an equality of votes for the candidates for any office, the decision shall be by lot, to be drawn by one of the judges.

CHAPTER III.

OF THE PRESIDENT AND VICE-PRESIDENTS.

SECTION 1. The president shall preside at the meetings, preserve order, regulate the debates, state and put questions agreeably to the sense and intention of the members, and announce the determination of the Society thereupon.

2. In the absence of the president from a meeting, his duties shall devolve upon the vice-presidents in rotation; or, at his request when present, his duties may be performed by either of the vice-presidents.

3. If the president and vice-presidents be absent, the members met shall appoint one of their number to take the chair for the time.

4. At some time, within the year, the president shall deliver to the Society a discourse on some literary or scientific subject, accompanied by such suggestions, with regard to the affairs of the Society, as he shall judge proper.

CHAPTER IV.

OF THE SECRETARIES.

SECTION 1. The secretaries shall minute the proceedings of the Society at the meetings, read all papers which are required to be read at the meetings, and preserve, in regular files, all documents presented to the Society. They shall give notice to members of their election, acknowledge in writing the reception of all communications, and generally conduct the correspondence.

2. Two of them, at least, shall officiate at every meeting; and unless a different arrangement shall be made and announced by them at the beginning of the year, the first and third named on the list of secretaries shall be considered responsible for the performance of all the duties of the office during the first, third, fifth, seventh, ninth, and eleventh months of the year, and in like manner the second and fourth named on the list, during the alternate months.

CHAPTER V.

OF THE CURATORS.

SECTION 1. The curators shall have charge of the cabinet of the Society, and shall be responsible for its preservation and security. They shall classify and arrange the articles therein, and shall preserve an exact list of them, with the names of the donors.

2. One of them, at least, shall be in attendance as curator at every meeting; and, unless a different arrangement shall be made and announced by them at the beginning of the year, they shall be considered severally responsible, in monthly rotation, for the performance of all the duties of the office.

CHAPTER VI.

OF THE TREASURER.

SECTION 1. The treasurer shall collect and receive all moneys belonging to the Society, or entrusted to its care, unless other-

wise specially directed ; and he shall disburse or apply the same upon the orders or according to the appropriations made by the Society, which orders and appropriations shall be duly certified to him by the presiding officer and secretary for the time.

2. He shall keep regular accounts ; and on the first Friday of December in every year, and as much oftener as may be required, he shall present to the Society a full report on the state of its funds.

3. He shall preserve, for the use of the Society at elections and meetings, a catalogue of all the members, designating thereon as a distinct class those who have paid the admission fee and the annual contributions, and noting opposite to their names the several meetings at which they have attended during the year.

4. On the expiration of his office he shall deliver up to his successor the books, papers, vouchers of property, and moneys remaining in his hands.

5. To secure the faithful execution of all his trusts, he shall, before he enters upon his office, give bond and security to the Society in such amount as the committee of finance shall judge proper ; which bond shall, without renewal, apply to the several years for which he may be reelected treasurer.

6. He shall, as full compensation for his services, receive five per cent on the amount of the annual income of the Society collected by him.

CHAPTER VII.

OF THE OFFICERS AND COUNCIL.

SECTION 1. The officers and council shall meet together statedly on the second Friday of February, May and November respectively, at the same hour in the evening at which the stated meetings of the Society are appointed to be held ; and specially at such times as they may judge proper.

2. They shall keep regular minutes of their proceedings, to

be laid before the Society at its stated meetings, on the third Friday of the same months respectively.

3. They shall, from time to time, lay before the Society such measures as in their judgment will conduce to the well-governing and ordering of the affairs of the Society, or promote the objects of its institution; particularly, they shall recommend subjects for premiums to be offered by the Society, with the conditions on which they shall be awarded.

4. They shall also, from time to time, nominate to the Society as candidates for membership, such persons of our own or of foreign countries, as may in their judgment merit such a distinction. Such nomination shall, as nearly as may be practicable, be agreed to by them in the manner pointed out by law for the election of members, except that no previous notice of any intended proposal to them for their nomination shall be required; and the names of all persons duly nominated by them shall be certified to the Society by a minute thereof, made in writing and attested by their clerk.

5. To them shall be submitted all communications from candidates for premiums, whether the Magellanic or those offered by the Society, all of which shall be immediately referred to the standing committee on premiums. Reports on such communications shall be made without unnecessary delay.

6. They shall annually appoint a standing committee of seven members, to be called the committee on premiums, of which three members shall be a quorum. It shall be the duty of this committee to publish the terms on which the Magellanic and other premiums are to be granted by the Society, to consider and report upon all communications from candidates for premiums, and to recommend to the officers and council subjects for which new premiums shall be offered by the Society.

7. The president and senior secretary of the Society shall be, *ex officio*, the president and clerk at their meetings; and three of their number shall be a quorum.

8. The ex-presidents of the Society shall be members of the board of officers and council.

CHAPTER VIII.

OF THE LIBRARIAN.

SECTION 1. A member of the Society shall be chosen at the stated meeting on the third Friday of January in each year, to be the librarian of the Society. Nominations for said office shall be made at the first stated meeting in January, and no person shall be voted for who has not been so nominated.

2. The librarian shall have, under the direction of the proper standing committees, the custody and care of the hall, and of the books and papers belonging to the Society, which he shall dispose and arrange in such manner as shall be judged most convenient, and shall keep an arranged catalogue of them, with the names of the donors. He shall assist the curators in their charge of the cabinet.

3. He shall attend at the library at every meeting of the Society, and daily, excepting Sundays, from 10 A. M. to 1 P. M., except when allowed leave of absence by the presiding officer of the Society, and shall then, and at such other times as he may think proper, lend out to any resident member of the Society, who is not indebted to him for fines or forfeitures, any books belonging to the library, except the last volumes and loose numbers of periodical journals, and except recent donations made to the Society, which shall not be lent out; taking from each member borrowing a book an obligation, with a sufficient penalty, to return the same uninjured, within one month thereafter, subject to a fine of fifty cents at every stated meeting that shall occur after the limited period before he returns the book, and a forfeiture of double the value of the book, or of the set of which it is one, if not returned in six months after being borrowed.

4. He shall levy and collect these fines and forfeitures, and pay over the moneys thence arising to the treasurer, at the end of his official year, in aid of the appropriation for the library.

5. He shall give notice of the meetings of the Society and of the officers and council, and of all elections, and shall make all such publications on behalf of the Society as are not otherwise devolved by law or special order.

6. He shall, at the beginning of each year, cause tables to be prepared for the use of the members, on which shall be noted the days for the meetings of the Society and of the officers and council, the stated business to be transacted thereat, and the names of the officiating secretaries and curator.

7. He shall transcribe carefully and correctly the minutes of the Society, as made by the officiating secretaries. He shall acknowledge the reception of all donations made to the Society, and transmit copies of its Transactions and Proceedings as directed, and shall from time to time perform such other executive or ministerial duties as may be charged on him by vote of the Society, given according to the laws.

8. He shall, under the direction of the secretaries, act as reporter of the proceedings of the Society, and shall cause such abstract of them to be published for the use of the members, and for distribution to correspondents, as the secretaries may deem expedient or proper, or as the Society may direct; but no expense shall be incurred, nor any contracts made for printing or publishing the same, beyond the sum appropriated by the Society for such purposes.

9. He shall receive an annual salary of seven hundred dollars, to be paid monthly from the treasury of the Society, and his services shall commence on the first Monday after his election.

CHAPTER IX.

OF THE MEETINGS OF THE SOCIETY.

SECTION 1. The ordinary meetings of the Society shall be on the first and third Fridays of every month from September to June, at eight o'clock in the evening. Special meetings may be called at any time by order of the president; or, in his absence, by order of a vice-president. And it shall not be

lawful to take up, consider or transact at such special meeting any business other than that which is specified in the call and the notice for the meeting. And no business shall be taken up, considered or transacted at such special meeting, except by such number of qualified voters as would be requisite for a quorum according to the laws and regulations of the Society.

2. The chair shall be taken by the presiding member at the time appointed for the meeting.

3. The qualified voters present at any stated or special meeting shall be a quorum, and be competent to elect members, dispose of property, appropriate money, and award premiums; but no property shall be alienated or encumbered, except by the vote of three-fourths of the qualified voters present, and given at two successive stated meetings. For the transaction of the ordinary business, the reception and reference of communications on literary, scientific, or other subjects, all other members present shall be deemed competent to act, and, in the absence of qualified voters, shall form a quorum.

4. Those members shall be considered qualified voters at the meetings, who have subscribed the laws and paid the admission fee, and who are not in arrears to the Society.

5. No meeting shall be continued after eleven o'clock; nor shall any new matter be introduced after ten, unless in the transaction of business enjoined by the laws.

6. The hall of the Society shall be open at half-past seven o'clock on every Friday evening when a stated meeting of the Society is to be held.

CHAPTER X.

OF THE TRANSACTIONS OF THE SOCIETY.

SECTION 1. Every communication to the Society which may be considered as intended for a place in the Transactions, shall immediately be referred to a committee to consider and report thereon.

2. If the committee shall report in favor of publishing the

communication, they shall make such corrections therein as they may judge necessary to fit it for the press; or if they shall judge the publication of an abstract or extracts from the paper to be more eligible, they shall accompany their report with such abstract or extracts. But if the author do not approve of the corrections, abstract, or extracts, reported by the committee, he shall be at liberty to withdraw his paper.

3. Communications not intended by their authors for publication in the Transactions, will be received by the Society, and the title or subject of them recorded; and, if they be in writing, they shall be filed by the secretaries.

4. The Transactions shall be published in numbers, at as short intervals as practicable, under the direction of the committee of publication, and in such a form as the Society shall from time to time direct; and every communication ordered to be published in the Transactions shall be immediately sent to the printer, and fifty copies thereof be given to the author as soon as printed.

5. The order in which papers are read shall determine their places in the Transactions, unless otherwise ordered by the Society; priority of date giving priority of location.

6. The expenses of publishing the Transactions shall be defrayed by subscriptions and sales, aided by such funds as the Society shall from time to time appropriate for that purpose.

CHAPTER XI.

OF STANDING AND SPECIAL COMMITTEES.

SECTION 1. There shall be chosen, at the stated meeting on the third Friday of January in each year, three members of the Society to be a committee of finance, five to be a committee of publication, three to be a committee on the hall, and five to be a committee on the library.

2. The committee of finance shall have the general superintendence of the financial concerns of the Society. They shall consult with the treasurer, and authorize and direct in-

vestments of its surplus funds. They shall always have access to his books, accounts, and vouchers ; and they shall annually, on the third Friday of December, make a full report on the state of the treasury, particularly distinguishing the several funds, and the income and disbursements of each, and recommending the amounts which should be appropriated for different objects of expenditure during the ensuing year. They shall also have power to remit the fees and contributions of members, when they shall judge that circumstances make it proper:

3. The committee of publication shall superintend the printing and distribution of the Society's Transactions. They shall make all contracts for the same in the name of the Society, but shall have no power to incur any debt, beyond the amount appropriated by the Society for said publication, or derived from subscriptions. They shall audit and certify all bills for expenses attending the publication to the treasurer for payment, fix the price of the different numbers, and receive subscriptions. They shall furnish the treasurer, immediately after the publication of any number of the Transactions, with a list of the subscribers, and the sum due from each, to enable him to collect the amount thereof, and shall annually, on the first Friday of December, make a full report of their doings to the Society. They shall have power to call on the librarian for his assistance in the performance of their duties.

4. The committee on the hall shall have charge of the real estate of the Society, and shall direct all necessary repairs. They shall effect insurance upon the property of the Society in such amounts as may from time to time be directed.

5. The committee on the library shall confer with and assist the librarian in the disbursement of the annual appropriations for the library, and in the disposition and arrangement of the books, charts, and documents belonging to the Society.

6. No committee appointed on any subject of deliberation shall consist of less than three members ; but any other matter

may be committed to a single member. A majority of any committee shall be a quorum.

7. All committees shall be chosen, unless otherwise directed by the Society, on nominations previously made and seconded, the question being put on each member separately.

8. The member first elected of any committee shall be the chairman, and considered responsible for the discharge of the duties enjoined on the committee.

9. Committees shall report at the meeting next following their appointment, unless otherwise ordered by the Society.

10. All reports shall be in writing, and signed by the members agreeing thereto.

11. The names of the committees, the time of their appointment, the matter or business committed to them, the time at which they are to report, and the time at which their final report is presented, shall be entered by the secretaries in a book provided for that purpose.

CHAPTER XII.

OF THE MAGELLANIC FUND.

SECTION 1. John Hyacinth de Magellan, in London, having in the year 1786 offered to the Society, as a donation, the sum of two hundred guineas, to be by them vested in a secure and permanent fund, to the end that the interest arising therefrom should be annually disposed of in premiums, to be adjudged by them to the author of the best discovery, or most useful invention, relating to Navigation, Astronomy, or Natural Philosophy (mere natural history only excepted), and the Society having accepted of the above donation, they hereby publish the conditions, prescribed by the donor and agreed to by the Society, upon which the said annual premiums will be awarded.

CONDITIONS OF THE MAGELLANIC PREMIUM.

1. The candidate shall send his discovery, invention, or improvement, addressed to the president, or one of the vice-presi-

dents of the Society, free of postage or other charges; and shall distinguish his performance by some motto, device, or other signature, at his pleasure. Together with his discovery, invention, or improvement, he shall also send a sealed letter containing the same motto, device or signature, and subscribed with the real name and place of residence of the author.

2. Persons of any nation, sect, or denomination whatever shall be admitted as candidates for this premium.

3. No discovery, invention, or improvement shall be entitled to this premium which hath been already published, or for which the author hath been publicly rewarded elsewhere.

4. The candidate shall communicate his discovery, invention, or improvement either in the English, French, German, or Latin language.

5. All such communications shall be publicly read or exhibited to the Society at some stated meeting, not less than one month previous to the day of adjudication, and shall at all times be open to the inspection of such members as shall desire it. But no member shall carry home with him the communication, description, or model, except the officer to whom it shall be entrusted; nor shall such officer part with the same out of his custody, without a special order of the Society for that purpose.

6. The Society, having previously referred the several communications from candidates for the premium then depending to the consideration of the twelve councilors and other officers of the Society, and having received their report thereon, shall, at one of their stated meetings in the month of December, annually, after the expiration of this current year (of the time and place, together with the particular occasion of which meeting, due notice shall be previously given, by public advertisement) proceed to final adjudication of the said premium; and, after due consideration had, a vote shall first be taken on this question, viz.: Whether any of the communications then under inspection be worthy of the proposed premium? If this question be determined in the negative, the whole business shall be deferred till another year; but if in the affirma-

tive, the Society shall proceed to determine by ballot, given by the members at large, the discovery, invention, or improvement most useful and worthy; and that discovery, invention, or improvement which shall be found to have a majority of concurring votes in its favor shall be successful; and then, and not till then, the sealed letter accompanying the crowned performance shall be opened, and the name of the author announced as the person entitled to the said premium.

7. No member of the Society who is a candidate for the premium then depending, or who hath not previously declared to the Society that he has considered and weighed according to the best of his judgment, the comparative merits of the several claims then under consideration, shall sit in judgment, or give his vote in awarding the said premium.

8. A full account of the crowned subject shall be published by the Society as soon as may be after the adjudication, either in a separate publication, or in the next succeeding volume of their Transactions, or in both.

9. The unsuccessful performances shall remain under consideration, and their authors be considered as candidates for the premium for five years next succeeding the time of their presentment; except such performances as their authors may, in the meantime, think fit to withdraw. And the Society shall annually publish an abstract of the titles, object, or subject-matter of the communications, so under consideration; such only excepted as the Society shall think not worthy of public notice.

10. The letters containing the names of authors whose performances shall be rejected, or which shall be found unsuccessful after a trial of five years, shall be burnt before the Society without breaking the seals.

11. In case there should be a failure, in any year, of any communication worthy of the proposed premium, there will then be two premiums to be awarded the next year. But no accumulation of premiums shall entitle the author to more than one premium for any one discovery, invention, or improvement.

12. The premium shall consist of an oval plate of solid standard gold, of the value of ten guineas. On one side thereof shall be neatly engraved a short Latin motto suited to the occasion, together with the words: "The Premium of John Hyacinth de Magellan, of London, established in the year 1786;" and on the other side of the plate shall be engraved these words: "Awarded by the A. P. S. for the discovery of ———, A. D. ———." And the seal of the Society shall be annexed to the medal by a ribbon passing through a small hole at the lower edge thereof.

SECTION 2. The Magellanic fund of two hundred guineas shall be considered as ten hundred and fifty dollars, and shall be invested separately from other funds belonging to or under the care of the Society, and a separate and distinct account of it shall be kept by the treasurer.

The said fund shall be credited with the sum of one hundred dollars, to represent the two premiums for which the Society is now liable.

The treasurer shall credit the said fund with the interest received on the investment thereof, and, if any surplus of said interest shall remain after providing for the premiums which may then be demandable, said surplus shall be used by the Society for making publication of the terms of the said premium, and for such purposes as may be authorized by its charter and laws.

The treasurer shall, at the first stated meeting of the Society in the month of December annually, make a report of the state of said fund and of the investment thereof.

CHAPTER XIII.

OF THE HENRY M. PHILLIPS' PRIZE ESSAY FUND.

Miss Emily Phillips, of Philadelphia, a sister of Hon. Henry M. Phillips, deceased, presented to the American Philosophical Society, held at Philadelphia for Promoting Useful Knowledge, on October 5, 1888, the sum of five thousand dollars for

the establishment and endowment of a Prize Fund, in memory of her deceased brother, who was an honored member of the Society. The Society, at a stated meeting, held October 5, 1888, accepted the gift and agreed to make suitable rules and regulations to carry out the wishes of the donor, and to discharge the duties confided to it. In furtherance whereof, the following rules and regulations were adopted by the Society at a stated meeting held on the seventh day of December, A.D. 1888:

First. The Prize Endowment Fund shall be called the "Henry M. Phillips' Prize Essay Fund."

Second. The money constituting the Endowment Fund, viz., five thousand dollars, shall be invested by the Society in such securities as may be recognized by the laws of Pennsylvania, as proper for the investment of trust funds, and the evidences of such investment shall be made in the name of the Society as trustee of the Henry M. Phillips' Prize Essay Fund.

Third. The income arising from such investment shall be appropriated as follows:

(a) To making public advertisement of the prize and the sum or amount in United States gold coin, and the terms on which it shall be awarded.

(b) To the payment of such prize or prizes as may from time to time be awarded by the Society for the best essay of real merit on the Science and Philosophy of Jurisprudence, and to the preparation of the certificate to be granted to the author of any successful essay.

Fourth. Competitors for the prize shall affix to their essays some motto or name (not the proper name of the author, however), and when the essay is forwarded to the Society, it shall be accompanied by a sealed envelope containing within the proper name of the author, and, on the outside thereof, the motto or name adopted for the essay.

Fifth. At a stated meeting of the Society, in pursuance of the advertisement, all essays received up to that time, shall be referred to a Committee of Judges, to consist of five persons, who shall be selected by the Society from nomination of ten

persons made by the Standing Committee on the Henry M. Phillips' Prize Essay Fund.

Sixth. All amounts of interest accruing and unexpended on each and every occasion on which no prize shall be awarded, shall be considered and taken as accretions to the principal of the said fund.

Seventh. All essays may be written in English, French, Dutch, German, Italian, Spanish, or Latin ; but, if in any language except English, must be accompanied by an English translation of the same.

Eighth. No treatise or essay shall be entitled to compete for the prize that has been already published or printed, or for which the author has received already any prize, or profit, or honor, of any nature whatsoever.

Ninth. All essays must be clearly and legibly written on only one side of the paper.

Tenth. The literary property of such essays shall be in their authors, subject to the right of the Society to publish the crowned essays in its Transactions or Proceedings.

Eleventh. A Standing Committee, to consist of five members appointed by the president, and, *ex officio*, the president and the treasurer of the Society, shall continue in office during the pleasure of the Society, and any vacancies that may occur in said committee shall be filled by new appointment by the president.

Twelfth. The said committee shall have charge of all matters connected with the management of this endowment and the investment of the same, and shall make such general rules for publishing the terms upon which said prize shall be competed for, and the amount of the said prize, and, if it shall deem it expedient, designate the subjects for competing essays. It shall report annually to the Society, on the first Friday in December, all its transactions, with an account of the investment of the Prize Fund, and of the income and expenditures thereof.

CHAPTER XIV.

OF THE LAWS OF THE SOCIETY.

SECTION 1. No statute, law, regulation, or ordinance shall ever be made or passed by the Society, or be binding upon the members thereof, or any of them, unless the same hath been duly proposed and fairly drawn up in writing, at one stated meeting of the Society, and enacted or passed at a subsequent meeting, at least the space of fourteen days after the former meeting, and upon due notice in some of the public newspapers, that the enacting of statutes and laws, or the making and passing ordinances and regulations, will be part of the business of such meeting.

2. Nor shall any statute, law, regulation, or ordinance be then, or at any time, enacted or passed, unless thirteen members of the Society be present in addition to the quorum of the officers and council; nor unless the same be voted by two-thirds of the whole body present.

3. The laws contained in the fourteen foregoing chapters, shall be in force from and after the time of their adoption by the Society; and thereafter all other laws, regulations and ordinances heretofore passed or made by the Society shall be and the same are hereby repealed.

RULES OF ORDER, &c.

OF THE

AMERICAN PHILOSOPHICAL SOCIETY.

1. The Order of Business at the ordinary meetings of the Society shall be as follows :—

1. The chair taken by the presiding officer.
2. Names of members present minuted.
3. New members presented, and visitors from corresponding societies introduced.
4. Records read of last ordinary meeting, and of any subsequent special meetings.
5. Correspondence read and acted on, unless giving rise to debate :
 - a.* Acknowledgments of election to membership.
 - b.* Letters from learned societies.
 - c.* Other letters.
6. Donations and other additions announced and acted on :
 - a.* To the library.
 - b.* To the cabinet.
7. Reports on communications and subjects of science read and acted on :
 - a.* From standing committees and officers.
 - b.* From special committees.
8. Obituary notices of members read, and announcements of the decease of members made and acted on.
9. Stated business of the meeting.

10. Communications for Magellanic premiums and communications intended for the Transactions presented and acted on.
11. Communications not intended for the Transactions presented.
12. Visitors from corresponding societies retire.
13. Pending nominations for membership announced and new nominations read.
14. Reports on business made and acted on :
 - a.* From standing committees and officers.
 - b.* From special committees.
15. Deferred business :
 - a.* Of the meeting.
 - b.* Of former meetings.
16. New business.
17. Minutes read, and submitted for correction.
18. The Society adjourned by the presiding member.

2. No debate shall ever take place in the Society but on motion duly made and seconded and afterwards stated by the presiding member.

3. When a member speaks he shall stand up, addressing himself to the presiding member ; and, avoiding desultory remarks, he shall confine himself strictly to the merits of the question under consideration.

4. No member while speaking shall be interrupted, unless by the presiding member, when he shall think fit to call him to order or to admonish him to a closer adherence to the question under discussion.

5. When a member speaking is called to order he shall instantly sit down or appeal from the call to the Society, who shall determine without debate.

6. No member shall speak more than twice to the same question without previously asking and obtaining leave of the Society.

7. Whilst any question or motion is under debate, no other motion shall be admitted, unless to divide the question, to

amend, to postpone, to adjourn, or to take the pending question.

8. No motion to reconsider a former vote can be made or seconded except by a member who voted in the majority. Nor shall any such motion be entertained unless it be made forthwith or at the next stated meeting after the action which it proposes to reconsider.

9. A motion for adjournment shall at all times be determined without debate.

10. The presiding member shall have no vote, unless in the case of a tie or equality of votes among the other members, or where the act of incorporation or the laws require more than a bare majority of the members present, or where the vote is taken by ballot.

11. Where a ballot is not required by the laws, the votes, if requested by three of the members present, shall be taken by ayes and noes, and shall be recorded among the proceedings of the meeting.

12. Any of the foregoing rules of order may, for the more convenient despatch of business at any meeting, be suspended by a vote of two-thirds of the members present.

AN ACT

For Incorporating the American Philosophical Society, held at Philadelphia,
for promoting Useful Knowledge.

WHEREAS, The cultivation of useful knowledge and the advancement of the liberal arts and sciences in any country have the most direct tendency towards the improvement of agriculture, the enlargement of trade, the ease and comfort of life, the ornament of society, and the increase and happiness of mankind. And, whereas, this country of North America, which the goodness of Providence hath given us to inherit, from the vastness of its extent, the variety of its climate, the fertility of its soil, the yet unexplored treasures of its bowels, the multitude of its rivers, lakes, bays, inlets, and other conveniences of navigation, offers to these United States one of the richest subjects of cultivation ever presented to any people upon earth. And, whereas, the experience of ages shows that improvements of a public nature are best carried on by societies of liberal and ingenious men, uniting their labors, without regard to nation, sect, or party, in one grand pursuit, alike interesting to all, whereby mutual prejudices are worn off, a humane and philosophical spirit is cherished, and youth stimulated to a laudable diligence and emulation in the pursuit of wisdom. And, whereas, upon these principles, divers public-spirited gentlemen in Pennsylvania, and other American States, did heretofore unite themselves, under certain regulations, into one voluntary Society, by the name of "The American Philosophical Society, held at Philadelphia, for promoting Useful Knowledge," and by their successful labors and investigations, to the great credit of America, have extended their reputation so far that men of the first eminence in the republic of letters in the most civilized nations in Europe have done honor to their publications, and desired to be enrolled among their members. And, whereas, the Society, after

having been long interrupted in their laudable pursuits by the calamities of war, and the distresses of our country, have found means to revive their design, in hopes of being able to prosecute the same with their former success, and being further encouraged therein by the public, for which purpose they have prayed us, the representatives of the freemen of the Commonwealth of Pennsylvania, that they may be created one body politic and corporate forever, with such powers, privileges, and immunities as may be necessary for answering the valuable purposes which the said Society had originally in view :

Wherefore, in order to encourage the said Society in the prosecution and advancement of all useful branches of knowledge, for the benefit of their country, and of mankind ; be it enacted, and it is hereby enacted, by the representatives of the freemen of the Commonwealth of Pennsylvania in general assembly met, and by the authority of the same, That the members of the said American Philosophical Society heretofore voluntarily associated for promoting useful knowledge, and such other persons as have been duly elected members and officers of the same, agreeably to the Fundamental Laws and Regulations of the said Society, comprised in twelve sections, prefixed to their volume of Transactions, published in Philadelphia by William and Thomas Bradford, in the year of our Lord one thousand seven hundred and seventy-one ; and who shall in all respects conform themselves to the said laws and regulations, and such other laws, regulations, and ordinances as shall hereafter be duly made and enacted by the said Society, according to the tenor hereof, be, and forever hereafter shall be, one body corporate and politic in deed, by the name and style of The American Philosophical Society, held at Philadelphia, for promoting Useful Knowledge, and by the same name they are hereby constituted and confirmed one body corporate and politic, to have perpetual succession, and by the same name they and their successors are hereby declared and made able and capable in law, to have, hold, receive, and enjoy lands, tenements, rents, franchises, heredita-

ments, gifts, and bequests of what nature so ever, in fee simple, or for term of life, lives, years, or otherwise, and also to give, grant, let, sell, alien, or assign the same lands, tenements, hereditaments, goods, chattels, and premises, according to the nature of the respective gifts, grants, and bequests made to them the said Society and of their estate therein.

Provided, That the amount of the clear yearly value of such real estate do not exceed the value of ten thousand bushels of good merchantable wheat.

And be it further enacted by the authority aforesaid, That the said Society be, and shall be for ever hereafter able, and capable in law to sue and be sued, plead and be impleaded, answer and be answered unto, defend and be defended, in all or any of the courts or other places, and before any judges, justices, and other person and persons, in all manner of actions, suits, complaints, pleas, causes, and matters, of what nature or kind so ever, within this Commonwealth; and that it shall and may be lawful to and for the said Society, for ever hereafter, to have and use one common seal in their affairs, and the same at their will and pleasure to break, change, alter, and renew.

And be it further enacted by the authority aforesaid, That for the well governing the said Society, and ordering their affairs, they shall have the following officers, that is to say, one Patron, who shall be his Excellency the President of the Supreme Executive Council [now the Governor] of this Commonwealth, for the time being, and likewise one President, three Vice-Presidents, four Secretaries, three Curators, one Treasurer, together with a council of twelve members; and that on the first Friday of January next, between the hours of two and five in the afternoon, as many of the members of the said Society as shall have paid up their arrears due to the said Society, and shall declare their willingness to conform to the laws, regulations, and ordinances of the Society, then duly in force, according to the tenor hereof, by subscribing the same, and who shall attend in the Hall, or place of meeting of

the said Society, within the time aforesaid, shall choose by ballot, agreeably to the Fundamental Laws and Regulations hereinbefore referred to, one President, four Secretaries, three Curators, and one Treasurer, and at the same time and place, the members met and qualified as aforesaid, shall in like manner choose four members for the council, to hold their offices for one year, four more members for the council to hold their offices for two years, and four more members for the council to hold their offices for three years. And on the first Friday in January, which shall be in the year of our Lord one thousand seven hundred and eighty-two, and so likewise on the first Friday of January, yearly and every year thereafter, between the hours of two and five in the afternoon, the members of the said Society met and qualified as aforesaid shall choose one President, three Vice-Presidents, four Secretaries, three Curators, and one Treasurer, to hold their respective offices for one year, and four Councilmen, to hold their offices for three years. *Provided*, That no person residing within the United States shall be capable of being President, Vice-President, Secretary, Treasurer, or member of the council, or of electing to any of the said offices, who is not capable of electing and being elected to civil offices within the State in which he resides. *Provided also*, That nothing herein contained shall be considered as intended to exclude any of the said officers or councilors, whose times shall be expired, from being reelected according to the pleasure of the said Society; and of the day, hours, and place of all such elections, due notice shall be given by the Secretaries, or some of them, in one or more of the public newspapers of this State, agreeably to the said Fundamental Laws and Regulations before referred to.

And be it further enacted by the authority aforesaid, That the officers and council of the said Society shall be capable of exercising such power for the well governing and ordering the affairs of the Society, and of holding such occasional meetings for that purpose, as shall be described, fixed, and determined, by the statutes, laws, regulations, and ordinances of the said

Society, hereafter to be made. *Provided always*, That no statute, law, regulation, or ordinance shall ever be made or passed by the said Society, or be binding upon the members thereof, or any of them, unless the same hath been duly proposed, and fairly drawn up in writing at one stated meeting of the Society, and enacted or passed at a subsequent meeting, at least the space of fourteen days after the former meeting, and upon due notice in some of the public newspapers that the enacting of statutes and laws, or the making and passing ordinances and regulations, will be part of the business of such meeting; nor shall any statute, law, regulation, or ordinance be then or at any time enacted or passed, unless thirteen members of the said Society, or such greater number of members as may be afterwards fixed by the rules of this Society, be present, besides such quorum of the officers and council as the laws of the Society for the time being may require, and unless the same be voted by two-thirds of the whole body then present; all which statutes, laws, ordinances and regulations, so as aforesaid duly made, enacted, and passed, shall be binding upon every member of the said Society, and be from time to time inviolably observed, according to the tenor and effect thereof; provided they be not repugnant or contrary to the laws of this Commonwealth, for the time being in force and effect.

And whereas, nations truly civilized (however unhappily at variance on other accounts) will never wage war with the arts and sciences and the common interests of humanity;

Be it further enacted by the authority aforesaid, That it shall and may be lawful for the said Society by their proper officers, at all times, whether in peace or in war, to correspond with learned Societies, as well as individual learned men, of any nation or country, upon matters merely belonging to the business of the said Society; such as the mutual communication of their discoveries and proceedings in philosophy and science; the procuring books, apparatus, natural curiosities, and such other articles and intelligence as are usually exchanged between learned bodies for furthering their common

pursuits. *Provided always*, That such correspondence of the said Society be at all times open to the inspection of the Supreme Executive Council of this Commonwealth.

(Signed)

JOHN BAYARD,

Speaker.

Enacted into a Law at Philadelphia, on Wednesday, the fifteenth day of March, Anno Domini one thousand seven hundred and eighty.

(Signed)

THOMAS PAINE,

Clerk of the General Assembly.

(COPY.)

A LIST
OF THE
Officers and Councilors

OF THE
American Philosophical Society,
HELD AT PHILADELPHIA, FOR PROMOTING USEFUL KNOWLEDGE,

From 1769 to 1890.

COMPILED BY
HENRY PHILLIPS, JR.,
ONE OF THE SECRETARIES OF THE SOCIETY.

PRESIDENTS.

BENJAMIN FRANKLIN,

Elected 2d January, 1769; died 17th April, 1790.

DAVID RITTENHOUSE,

Elected 7th January, 1791; died 26th June, 1796.

THOMAS JEFFERSON,

Elected 6th January, 1797; resigned in January, 1815; died 4th July, 1826.

CASPAR WISTAR,

Elected 6th January, 1815; died 22d January, 1818.

ROBERT PATTERSON,

Elected 1st January, 1819; died 22d July, 1824.

WILLIAM TILGHMAN,

Elected 7th January, 1825; died 29th April, 1827.

PETER STEPHENSON DUPONCEAU,

Elected 4th January, 1828; died 1st April, 1844.

ROBERT M. PATTERSON,

Elected 3d January, 1845; declined accepting the position.

NATHANIEL CHAPMAN,

Elected 2d January, 1846; died 1st July, 1853.

ROBERT M. PATTERSON,

Re-elected 5th January, 1849; died 5th September, 1854.

FRANKLIN BACHE,

Elected 7th January, 1853; died 19th March, 1864.

ALEXANDER DALLAS BACHE,

Elected 5th January, 1855; died 17th February, 1867.

JOHN K. KANE,

Elected 2d January, 1857; died 21st February, 1858.

GEORGE B. WOOD,

Elected 7th January, 1859; died 30th March, 1879.

FREDERICK FRALEY,

Elected 2d January, 1880.

VICE-PRESIDENTS.

1789.

Thomas Cadwalader, M.D.,
Thomas Bond, M.D.,
Joseph Galloway.

1770 to 1775, inclusive.

Joseph Galloway,
Thomas Bond, M.D.,
Samuel Rhoads.

1776.

Thomas Bond, M.D.,
Samuel Rhoads,
Rev. Dr. William Smith.

[No records from January 5, 1776, to January 19, 1779.]

1779, 1780.

Thomas Bond, M.D.,
David Rittenhouse,
William Shippen, M.D.

1781, 1782.

Thomas Bond, M.D.,
David Rittenhouse,
Rev. James Wilson.

1783, 1784.

Thomas Bond, M.D.,
Rev. Dr. William White,
Rev. John Ewing.

1785.

Rev. Dr. William White,
Rev. John Ewing,
Samuel Vaughan.

1786 to 1789, inclusive.

Rev. Dr. William White,
Rev. John Ewing,
David Rittenhouse.

1790.

Rev. John Ewing,
David Rittenhouse,
Rev. Dr. William Smith.

1791 to 1794, inclusive.

Rev. John Ewing,
Rev. Dr. William Smith,
Thomas Jefferson.

1795.

Rev. Dr. Nicholas Collin,
Thomas Ruston, M.D.,
Caspar Wistar, M.D.

1796.

Rev. Dr. Nicholas Collin,
Rev. Dr. William Smith,
Caspar Wistar, M.D.

1797, 1798.

Rev. Dr. Nicholas Collin,
Benjamin Rush, M.D.,
Caspar Wistar, M.D.

1799, 1800.

Caspar Wistar, M.D.,
Benjamin Rush, M.D.,
Robert Patterson.

1801.

Caspar Wistar, M.D.,
Andrew Ellicott,
Robert Patterson.

1802 to 1814, inclusive.

Caspar Wistar, M.D.,
Benjamin Smith Barton, M.D.,
Robert Patterson.

1815.	1845 to 1848, inclusive.
Patterson, n Smith Barton, M.D., n Williams.	Nathaniel Chapman, M.D., Alexander Dallas Bache, Franklin Bache.
16 to 1818, inclusive.	1849 to 1852, inclusive.
Patterson, Tlghman, Duponceau.	Franklin Bache, Alexander Dallas Bache, John K. Kane.
19 to 1824, inclusive.	1853, 1854.
Patterson, Duponceau, s Collins.	Alexander Dallas Bache, John K. Kane, Robley Dunglison, M.D.
25 to 1827, inclusive.	1855, 1856.
Duponceau, s Collins, f. Patterson, M.D.	John K. Kane, Robley Dunglison, M.D., John F. Frazer.
28 to 1830, inclusive.	1857.
s Collins, f. Patterson, M.D., el Chapman, M.D.	John K. Kane, John F. Frazer, John C. Cresson.
1831.	1858.
s Collins, Hopkinson, el Chapman, M.D.	Robley Dunglison, M.D., John C. Cresson, Isaac Lea.
22 to 1835, inclusive.	1859 to 1868, inclusive.
el Chapman, M.D., Hopkinson, Ord.	John C. Cresson, Isaac Lea, George Sharswood.
26 to 1842, inclusive.	1869 to 1876, inclusive.
el Chapman, M.D., Hopkinson, f. Patterson, M.D.	John C. Cresson, Isaac Lea, Frederick Fraley.
1843, 1844.	1877 to 1879, inclusive.
el Chapman, M.D., f. Patterson, M.D., Bache.	Frederick Fraley, Eli K. Price, E. Otis Kendall.

1880 to 1883, inclusive.

Eli K. Price,
E. Otis Kendall,
John L. LeConte, M.D.

1884.

Eli K. Price,
E. Otis Kendall,
Pliny E. Chase.

1885, 1886.

E. Otis Kendall,
Pliny E. Chase,
W. S. W. Ruschenberger, M

1887 to 1890, inclusive

E. Otis Kendall,
W. S. W. Ruschenberger, M
J. Peter Lesley.

SECRETARIES.

1769.

Charles Thomson,
Rev. William Smith,
Thomas Mifflin,
Rev. John Ewing.

1770.

Rev. William Smith,
Charles Thomson,
Thomas Mifflin,
S. Roberts.

1771.

Rev. William Smith,
David Rittenhouse,
Rev. John Ewing,
Robert Strettell Jones.

1772.

Rev. William Smith,
Charles Moore, M.D.,
William Shippen, Jr., M.D.,
Robert Strettell Jones.

1773.

Rev. William Smith,
Robert Strettell Jones,
Owen Biddle,
Benjamin Rush, M.D.

1774, 1775.

Rev. William Smith,
Richard Wells,
Robert Strettell Jones,
Benjamin Rush, M.D.

1776.

Robert Strettell Jones,
Benjamin Rush, M.D.,
Richard Wells,
Thomas Bond, Jr.

No elections till

1779.

Rev. William Smith,
Rev. John Ewing,
Rev. William White,
Owen Biddle.

(No Minutes of 1780.)

1781.

Rev. John Ewing,
Owen Biddle,
Timothy Matlack,
Rev. William White.

1782.

Rev. John Ewing,
Rev. William White,
Timothy Matlack,
James Hutchinson, M.D.

1783.

James Hutchinson, M.D.,
Timothy Matlack,
Rev. James Davidson,
Hugh Shiell.

1784.

James Hutchinson, M.D.,
Thomas Bond, Jr.,
Robert Patterson,
Rev. John C. Kunzie.

1785.

James Hutchinson, M.D.,
Thomas Bond, Jr.,
Robert Patterson,
Rev. Samuel Magaw.

1786, 1787, 1788.

James Hutchinson, M.D.,
John Foulke,
Robert Patterson,
Rev. Samuel Magaw.

1789, 1790.

James Hutchinson, M.D.,
Rev. Samuel Magaw,
Robert Patterson,
John Vaughan.

1791, 1792, 1793.

James Hutchinson, M.D.,
Rev. Samuel Magaw,
Robert Patterson,
Jonathan Williams, Jr.

1794.

William Barton,
Rev. Samuel Magaw,
Robert Patterson,
Rev. Nicholas Collin,

1795, 1796.

William Barton,
Rev. Samuel Magaw,
Robert Patterson,
John Bleakley.

1797.

William Barton,
Rev. Samuel Magaw,
Jonathan Williams, Jr.,
John Bleakley.

1798.

Rev. Samuel Magaw,
Adam Seybert,
Thomas C. James,
Samuel H. Smith.

1799.

James Woodhouse,
Adam Seybert,
Thomas C. James,
Samuel H. Smith.

1800.

Joseph Clay,
Adam Seybert,
Thomas Peters Smith,
Samuel H. Smith.

1801.

Joseph Clay,
Adam Seybert,
Rev. Burgess Allison,
Tench Coxe.

1802.

Joseph Clay,
Tench Coxe,
Thomas C. James,
Adam Seybert.

1803 to 1807, inclusive.

Adam Seybert,
John Redman Coxe,
Thomas C. James,
Thomas Tickell Hewson.

1808.

Adam Seybert,
 Thomas C. James,
 Thomas Tickell Hewson,
 Nathaniel Chapman, M.D.

1809.

Thomas C. James,
 Thomas Tickell Hewson,
 Nathaniel Chapman, M.D.

1810, 1811.

Thomas C. James,
 Thomas Tickell Hewson,
 Nathaniel Chapman, M.D.,
 Rev. Burgess Allison.

1812.

Thomas C. James,
 Thomas Tickell Hewson,
 Nathaniel Chapman, M.D.,
 Joseph Cloud.

1813.

Thomas C. James,
 Thomas Tickell Hewson,
 Nathaniel Chapman, M.D.,
 Robert M. Patterson.

1814.

Thomas C. James,
 Thomas Tickell Hewson,
 Reuben Haines,
 Robert M. Patterson.

1815, 1816.

Thomas C. James,
 Thomas Tickell Hewson,
 Nathaniel Chapman, M.D.,
 Robert M. Patterson.

1817, 1818.

Thomas C. James,
 Robert M. Patterson,
 John Syng Dorsey, M.D.,
 W. P. C. Barton, M.D.

1819.

Thomas C. James,
 Robert M. Patterson,
 W. P. C. Barton, M.D.,
 Robert Walsh, Jr.

1820.

Thomas C. James,
 Robert M. Patterson,
 Robert Walsh, Jr.,
 George Ord.

1821, 1822.

Thomas Tickell Hewson,
 Robert M. Patterson,
 Robert Walsh, Jr.,
 George Ord.

1823, 1824.

Robert M. Patterson,
 Robert Walsh, Jr.,
 George Ord,
 William H. Keating, M.D.

1825, 1826.

Robert Walsh, Jr.,
 George Ord,
 William H. Keating, M.D.,
 Franklin Bache.

1827.

George Ord,
 William H. Keating, M.D.,
 Franklin Bache,
 Clement C. Biddle.

1828.

Franklin Bache,
 Clement C. Biddle,
 John K. Kane,
 Charles D. Meigs, M.D.

1829.

George Ord,
 Franklin Bache,
 Clement C. Biddle,
 John K. Kane.

1830, 1831.

(No record.)

1832.

Franklin Bache,
Clement C. Biddle,
John K. Kane,
William H. Keating, M.D.

1833 to 1837, inclusive.

Franklin Bache,
John K. Kane,
Alexander Dallas Bache,
Charles D. Meigs, M.D.

1838, 1839.

Franklin Bache,
John K. Kane,
Alexander Dallas Bache,
Joshua Francis Fisher.

1840 to 1842, inclusive.

Franklin Bache,
John K. Kane,
Alexander Dallas Bache,
Robley Dunglison, M.D.

1843, 1844.

Alexander Dallas Bache,
John K. Kane,
Robley Dunglison, M.D.,
Joshua Francis Fisher.

1845 to 1847, inclusive.

John K. Kane,
Robley Dunglison, M.D.,
John F. Frazer,
Alfred L. Elwyn.

1848.

John K. Kane,
Robley Dunglison, M.D.,
John F. Frazer,
Charles B. Trego.

1849 to 1852, inclusive.

Robley Dunglison, M.D.,
John F. Frazer,
Charles B. Trego,
E. Otis Kendall.

1853, 1854.

John F. Frazer,
Charles B. Trego,
E. Otis Kendall,
Frederick Fraley.

1855 to 1858, inclusive.

Charles B. Trego,
E. Otis Kendall,
Frederick Fraley,
John LeConte.

1859 to 1874, inclusive.

Charles B. Trego,
E. Otis Kendall,
John LeConte,
J. Peter Lesley.

1875, 1876.

E. Otis Kendall,
John LeConte,
Pliny E. Chase,
J. Peter Lesley.

1877 to 1879, inclusive.

John LeConte,
Pliny E. Chase,
George F. Barker,
J. Peter Lesley.

1880 to 1883, inclusive.

Pliny E. Chase,
George F. Barker,
Daniel G. Brinton, M.D.,
J. Peter Lesley.

1884, 1885.

George F. Barker,
Daniel G. Brinton, M.D.,
Henry Phillips, Jr.,
J. Peter Lesley.

1886.

J. Peter Lesley,
George F. Barker,
Daniel G. Brinton, M.D.,
Henry Phillips, Jr.

1887 to 1890, inclusive.

George F. Barker,
Daniel G. Brinton, M.D.,
Henry Phillips, Jr.,
George H. Horn, M.D.

CURATORS.

1769.

Adam Kuhn, M.D.,
John Morgan, M.D.,
Lewis Nicola.

1779.

Lewis Nicola,
Samuel Duffield, M.D.,
Pierre E. du Simitiere.

1770.

Isaac Bartram,
Benjamin Rush, M.D.,
Owen Biddle.

1780.

(No Minutes.)

1781.

Lewis Nicola,
Samuel Duffield, M.D.,
Pierre E. du Simitiere.

1771.

Benjamin Rush, M.D.,
Adam Kuhn, M.D.,
William Shippen, Jr., M.D.

1782.

Lewis Nicola,
Samuel Duffield, M.D.,
Isaac Gray.

1772.

Benjamin Rush, M.D.,
James Alexander,
David Rittenhouse.

1783 to 1786, inclusive.

1773.

David Rittenhouse,
James Alexander,
Samuel Duffield, M.D.

Lewis Nicola,
Ebenezer Hazard,
Isaac Gray.

1786, 1787.

1774, 1775.

David Rittenhouse,
Samuel Duffield, M.D.,
Thomas Bond, Jr.

Samuel Duffield, M.D.,
William Bradford,
Barnabas Binney.

1776.

David Rittenhouse,
Samuel Duffield, M.D.,
Pierre E. du Simitiere.

1788, 1789.

Samuel Duffield, M.D.,
William Bradford,
Charles W. Peale.

1790, 1791.

Samuel Duffield, M.D.,
Benjamin Smith Barton,
Charles W. Peale.

1792 to 1794, inclusive.

Charles W. Peale,
Benjamin Smith Barton,
Caspar Wistar, M.D.

1795, 1796.

Benjamin Smith Barton,
Charles W. Peale,
Thomas Parke, M.D.

1797, 1798.

Charles W. Peale,
Benjamin Smith Barton,
Robert Patterson.

1799.

Charles W. Peale,
Benjamin Smith Barton,
Rev. Nicholas Collin.

1800.

Charles W. Peale,
Benjamin Smith Barton,
George Turner.

1801, 1802.

Charles W. Peale,
Robert Leslie,
John R. Smith.

1803.

Charles Peale,
Robert Leslie,
William S. Jacobs, M.D.

1804 to 1806, inclusive.

Charles W. Peale,
Robert Hare, Jr.,
John Church, M.D.

1807 to 1810, inclusive.

Charles W. Peale,
Robert Hare, Jr.,
John R. Smith.

1811 to 1813, inclusive.

John R. Smith,
Robert Hare, Jr.,
Zaccheus Collins.

1814, 1815.

Zaccheus Collins,
Joseph Cloud,
William Hembel, Jr.

1816.

Zaccheus Collins,
Joseph Cloud,
Samuel Calhoun, M.D.

1817, 1818.

Zaccheus Collins,
Joseph Cloud,
Thomas Tickell Hewson.

1819, 1820.

Joseph Cloud,
Thomas Tickell Hewson,
Reuben Haines.

1821, 1822.

Joseph Cloud,
Thomas Say,
William E. Horner, M.D.

1823.

Thomas Say,
William E. Horner, M.D.,
Jesse Lukens.

1824 to 1827, inclusive.

Thomas Say,
William E. Horner, M.D.,
James Mease, M.D.

1828.

James Mease, M.D.,
William E. Horner, M.D.,
John Price Wetherill.

1829.

James Mease, M.D.,
John Price Wetherill,
R. E. Griffith, Jr., M.D.

1830.

(No Minutes.)

1831 to 1836, inclusive.

R. E. Griffith, Jr., M.D.,
John Price Wetherill,
Isaac Lea.

1837.

Isaac Lea,
John Price Wetherill,
Isaac Hayes, M.D.

1838.

Isaac Lea,
John Price Wetherill,
Franklin Peale.

1839 to 1845, inclusive.

Isaac Hays, M.D.,
John Price Wetherill,
Franklin Peale.

1846.

Isaac Hays, M.D.,
John Price Wetherill,
John C. Cresson,

1847 to 1850, inclusive.

Franklin Peale,
John Price Wetherill,
John C. Cresson.

1851 to 1856, inclusive.

Franklin Peale,
John C. Cresson,
Miers Fisher Longstreth.

1857, 1858.

Franklin Peale,
Elias Durand,
Miers Fisher Longstreth.

1859 to 1870, inclusive.

Franklin Peale,
Elias Durand,
Joseph Carson, M.D.

1871 to 1873, inclusive.

Hector Tyndall,
Elias Durand,
Joseph Carson, M.D.

1874 to 1876, inclusive.

Joseph Carson, M.D.,
Hector Tyndall,
Charles M. Cresson, M.D.

1877 to 1879, inclusive.

Hector Tyndall,
Charles M. Cresson, M.D.,
Daniel G. Brinton, M.D.

1880.

Hector Tyndall,
Charles M. Cresson, M.D.,
Henry Phillips, Jr.

1881 to 1883 inclusive.

Charles M. Cresson, M.D.,
Henry Phillips, Jr.,
George H. Horn, M.D.

1884, 1885.

George H. Horn, M.D.,
Philip H. Law,
Charles G. Ames.

1886.

George H. Horn, M.D.,
Charles G. Ames,
John R. Baker.

1887, 1888.
C Charles G. Ames,
J John R. Baker,
P Philip H. Law.

1889, 1890.
 John R. Baker,
 Patterson DuBois,
 J. Cheston Morris.

TREASURERS.

1769, 1770.	[1832, qy. 1833, blank in minutes.]
P Philip Syng, Sen.	1842 to 1847, inclusive.
1771 to 1776, inclusive.	George Ord.
T Thomas Coombe.	1848 to 1851, inclusive.
1779.	Benjamin W. Richards.
M Matthew Clarkson.	1852 to 1874, inclusive.
[1780 no minutes.]	Charles B. Trego.
1781 to 1790, inclusive.	1875 to 1890, inclusive.
Francis Hopkinson.	J. Sergeant Price.
1791 to 1841, inclusive.	
John Vaughan.	

COUNCILORS.

1781.	For one year.
For three years.	Rev. Ezra Stiles,
George Bryan,	Matthew Clarkson,
Thomas McKean,	Jonathan B. Smith,
Barbè de Marbois,	John Lukens.
Charles Thomson.	
For two years.	1782.
Rev. George Duffield,	Joseph Reed,
William Livingston,	Jonathan B. Smith,
Thomas Jefferson,	Jared Ingersoll,
Rev. John Witherspoon.	Owen Biddle.

1783.

Thomas Jefferson,
Rev. John Witherspoon,
Samuel Duffield,
David Rittenhouse.

1784.

Thomas McKean,
Barbè de Marbois,
George Bryan,
Charles Caldwell, M.D.

1785.

Jared Ingersoll,
Jonathan B. Smith,
Joseph Reed,
Rev. Robert Blackwell.

1786.

David Rittenhouse,
Benjamin Rush, M.D.,
John Jones, M.D.,
Rev. George Duffield,
Adam Kuhn, M.D.,
vice Joseph Reed, deceased.

1787.

Thomas McKean,
George Bryan,
Charles Caldwell, M.D.,
Hugh Hodge, M.D.

1788.

Jared Ingersoll,
Rev. Robert Blackwell,
Adam Kuhn, M.D.,
Charles Pettit.

1789.

Charles Pettit,
Benjamin Rush, M.D.,
John Jones, M.D.,
Rev. George Duffield.

1790.

Thomas McKean,
Rev. Robert Blackwell,
William Barton, M.D.,
Isaac Gray.

1791.

For three years.

Adam Kuhn, M.D.,
Jared Ingersoll,
Andrew Ellicott,
Samuel P. Griffiths, M.D.

For one year.

Rev. Nicholas Collin,
vice Rev. George Duffield, de-
ceased.

For unexpired terms.

Thomas McKean,
Rev. Robert Blackwell,
William Barton, M.D.,
Charles Pettit,
Isaac Gray,
Benjamin Rush, M.D.,
John Jones, M.D.

1792.

Charles Pettit,
Rev. Nicholas Collin,
Benjamin Rush, M.D.,
Rev. William White.

1793.

J. Thornton, M.D.,
Thomas McKean,
William Barton, M.D.,
Rev. Robert Blackwell.

1794.

Jonathan Williams, Jr.,
Rev. John Andrews,
Andrew Ellicott,
Samuel P. Griffiths, M.D.,
Rev. James Davidson,
vice William Barton, M.D.

1795.

Rev. William Smith,
Jonathan B. Smith,
William Curry, M.D.,
Rev. William White.

1796.

Rev. Robert Blackwell,
Thomas McKean,
Rev. James Davidson,
Adam Kuhn, M.D.

1797.

Tench Coxe,
Rev. James Abercrombie,
Richard P. Smith.

1798.

Jonathan B. Smith,
Rev. William Smith,
Samuel Wheeler,
Jonathan Williams, Jr.,
vice Richard P. Smith, dec'd.

1799.

Thomas McKean,
Rev. James Davidson,
Rev. Robert Blackwell,
Adam Kuhn, M.D.

1800.

Jonathan Williams, Jr.,
Andrew Ellicott,
Tench Coxe,
Rev. Samuel Magaw.

For two years.

Benjamin H. Latrobe,
vice Thomas McKean,
Became Patron of the Society [having
been elected Governor of
Pennsylvania].

1801.

Jonathan B. Smith,
William Curry, M.D.,
Samuel Wheeler,
Peter S. Duponceau.

1802.

James Woodhouse, M.D.,
John Bleakley,
Benjamin H. Latrobe,
Samuel Duffield.

1803.

Jonathan Williams, Jr.,
Andrew Ellicott,
Rev. Samuel Magaw,
Rev. Nicholas Collin.

1804.

Rev. William White,
Jonathan B. Smith,
Peter S. Duponceau,
Adam Kuhn, M.D.

1805.

James Woodhouse, M.D.,
Samuel Duffield,
William Shippen, M.D.,
Zaccheus Collins.

1806.

Benjamin Rush, M.D.,
Andrew Ellicott,
Rev. Nicholas Collin,
William Tilghman.

1807.

Rev. William White,
Peter S. Duponceau,
Jonathan Williams, Jr.,
William Short.

1808.

William Shippen, M.D.,
James Woodhouse, M.D.,
Zaccheus Collins,
John McDowell.

1809.

Rev. Nicholas Collin,
Andrew Ellicott,
Benjamin Rush, M.D.,
William Tilghman.

For two years.

Jonathan B. Smith,
vice William Shippen, M.D., de-
ceased.

1810.

Peter S. Duponceau,
Jonathan Williams, Jr.,
Rev. William White,
Mahlon Dickerson.

1811.

Adam Seybert, M.D.,
Jonathan B. Smith,
James Gibson,
John H. Brinton.

1812.

Rev. Nicholas Collin,
Benjamin Rush, M.D.,
William Tilghman,
Andrew Ellicott.

1813.

Rev. William White,
Peter S. Duponceau,
Jonathan Williams, Jr.,
Horace Binney.

1814.

Thomas Cooper,
James Gibson,
John Pennington, M.D.,
Robert Hare, Jr.

For one year.

William Meredith.

1815.

Rev. Nicholas Collin,
William Tilghman,
Andrew Ellicott,
William Meredith.

1816.

Rev. William White,
Horace Binney,
John Sergeant,
William Rawle.

1817.

Thomas Cooper,
James Gibson,
Nathaniel Chapman, M.D.,
Samuel Calhoun, M.D.

1817.

For one year.

William Hembel, Jr.

1818.

Thomas Jefferson,
William Maclure,
Rev. Nicholas Collin,
William Meredith.

1819.

William Rawle,
Horace Binney,
John Sergeant,
John Quincy Adams.

1820.

James Gibson,
Nathaniel Chapman, M.D.,
Robert Hare, Jr.,
William Hembel, Jr.

1821.

Thomas Jefferson,
William Maclure,
Rev. Nicholas Collin,
William Meredith.

1822.

Horace Binney,
John Quincy Adams,
John Sergeant,
William Rawle.

1823.

Nathaniel Chapman, M.D.,
Robert Hare, Jr.,
William Hembel, Jr.,
Clement C. Biddle.

1824.

Thomas Jefferson,
William Maclure,
Rev. Nicholas Collin,
William Meredith.

1825.

Horace Binney,
John Sergeant,
John Quincy Adams,
William Rawle.

1826.

Nathaniel Chapman, M.D.,
William Hembel, Jr.,
Robert Hare, Jr.,
Clement C. Biddle.

1827.

William Meredith,
Rev. Nicholas Collin,
William Maclure,
Robert Walsh, Jr.

1828.

John Quincy Adams,
John Sergeant,
William Short,
Samuel Moore, M.D.

For one year.

Robert Adrain.

1829.

Robert Hare, Jr.,
William Rawle,
William Hembel, Jr.,
Joseph Hopkinson.

1830.

(No record.)

1831.

Nicholas Biddle,
Rev. Nicholas Collin,
William Meredith.

For one year.

William H. Keating, M.D.,
vice Joseph Hopkinson.

1832.

William Hembel, Jr.,
William Rawle,
Robert Hare, Jr.,
Charles D. Meigs, M.D.

For two years.

James Mease, M.D.

1833.

William Short,
Clement C. Biddle.

1834.

Nicholas Biddle,
Rev. William H. DeLancey,
Thomas Biddle,
James Mease, M.D.

1835.

William Rawle,
Robert Hare, Jr.,
William Hembel, Jr.,
Eugenius Nulty.

1836.

William Short,
George Ord,
William H. Keating, M.D.,
Clement C. Biddle.

1837.

Nicholas Biddle,
Thomas Biddle,
James Mease, M.D.,
Gouverneur Emerson, M.D.

For one year.

Joshua Francis Fisher,
vice William Rawle, deceased

1838.

Robert Hare, Jr.,
William Meredith,
William Hembel, Jr.,
Charles D. Meigs, M.D.

1839.

William Short,
William H. Keating, M.D.,
George Ord,
Clement C. Biddle.

1840.

Nicholas Biddle,
Thomas Biddle,
Gouverneur Emerson, M.D.,
Joshua Francis Fisher.

1841.

Robert Hare, Jr.,
William Hembel, Jr.,
Charles D. Meigs, M.D.,
Henry Vethake.

For one year.

Joseph Henry,
vice William H. Keating M.D.,
deceased.

1842.

Clement C. Biddle,
William Short,
Joseph Henry,
Philip H. Nicklin.

1843.

Thomas Biddle,
Gouverneur Emerson, M.D.,
Isaac Lea,
Hartman Kuhn.

For one year.

Rev. Benjamin Dorr,
vice Philip H. Nicklin, deceased.

1844.

Robert Hare, Jr.,
William Hembel, Jr.,
Charles D. Meigs, M.D.,
Henry Vethake.

1845, re-elected 1848.

Clement C. Biddle,
William Short,
Joseph Henry,
Rev. Benjamin Dorr.

1846.

Thomas Biddle,
Isaac Lea,
Thomas P. Cope,
Hartman Kuhn.

1847, re-elected 1850.

Robert Hare, Jr.,
William Hembel, Jr.,
Charles D. Meigs, M.D.,
Henry Vethake.

1849, re-elected 1852.

Thomas Biddle,
Hartman Kuhn,
Isaac Lea,
Alfred L. Elwyn.

1850.

George M. Justice,
vice William Short, deceased.

1851, re-elected 1854.

Clement C. Biddle,
George M. Justice,
Frederick Fraley,
Henry Reed.

1852.

Isaac Hays, M.D.,
vice William Hembel, Jr., de—
ceased.

1853.

Isaac Hays, M.D.,
Charles D. Meigs, M.D.,
Henry Vethake,
Jacob G. Morris.

1855.

Thomas Biddle,
Isaac Lea,
Alfred L. Elwyn,
John Bell, M.D.,
George Tucker,
vice Henry Reed, deceased,
Robert Bridges, M.D.,
vice Jacob G. Morris, deceased.

1856.

Isaac Hays, M.D.,
Charles D. Meigs, M.D.,
Henry Vethake,
Robert Bridges, M.D.

1857.

George M. Justice,
George Tucker,
William Harris, M.D.,
Robert Patterson.

1858, re-elected 1861.

Alfred L. Elwyn,
John Bell, M.D.,
Henry Coppée,
Edward King.

1859, re-elected 1862, 1865, 1868,
1871, 1874.

Isaac Hays, M.D.,
Robert Bridges, M.D.,
Henry C. Carey,
Robert E. Rogers, M.D.

1860.

George M. Justice,
George Tucker,
Robert Patterson,
Henry Vethake.

1861.

Frederick Fraley,
vice George M. Justice, resigned.

1863.

Frederick Fraley,
Robert Patterson,
Rev. Daniel R. Goodwin,
William Parker Foulke.

1864.

Alfred L. Elwyn,
John Bell, M.D.,
Henry Coppée,
Oswald Thompson.

1866, re-elected 1869.

Frederick Fraley,
Robert Patterson,
Rev. Daniel R. Goodwin,
Eli K. Price.

1867, re-elected 1870.

Alfred L. Elwyn,
John Bell, M.D.,
Benjamin H. Coates, M.D.,
Benjamin V. Marsh.

1872, re-elected 1875.

Rev. Daniel R. Goodwin,
Eli K. Price,
W. S. W. Ruschenberger, M.D.,
Henry Winsor.

1873.

Alfred L. Elwyn,
Benjamin Coates, M.D.,
Pliny E. Chase,
Benjamin V. Marsh.

1876, re-elected 1879.

Alfred L. Elwyn,
Benjamin Coates, M.D.,
Benjamin V. Marsh,
George H. Horn, M.D.

1877.

Isaac Hays, M.D.,
Robert E. Rogers, M.D.,
Henry C. Carey,
Robert Bridges, M.D.

1878, re-elected 1881, 1884.

Rev. Daniel R. Goodwin,
W. S. W. Ruschenberger, M.D.,
Henry Winsor
William A. Ingham.

1880.

Robert E. Rogers, M.D.,
Robert Bridges, M.D.,
Oswald Seidensticker,
Richard Wood.

1882.

Alfred L. Elwyn,
Benjamin V. Marsh,
Aubrey H. Smith,
George R. Morehouse, M.D.

1883.

Robert E. Rogers, M.D.,
Richard Wood,
Oswald Seidensticker,
Philip Howard Law.

1885.

Aubrey H. Smith,
George R. Morehouse, M.D.,
Charles A. Ashburner,
Edward D. Cope.

For one year.

Persifor Frazer,
vice Robert E. Rogers, M.D., de-
ceased.

1886.

Oswald Seidensticker,
Richard Wood,
William V. McKean,
Persifor Frazer.

1887.

Daniel R. Goodwin,
Henry Winsor,
William A. Ingham,
Thomas H. Dudley.

For two years.

Richard Vaux,
vice Oswald Seidensticker, re-
signed.

1888.

Aubrey H. Smith,
George R. Morehouse, M.D.,
Samuel Wagner,
Edward D. Cope.

1889.

Richard Wood,
William V. McKean,
Richard Vaux,
Isaac C. Martindale.

1890.

Daniel R. Goodwin,
William A. Ingham,
Thomas H. Dudley,
Robert Patterson.

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LIST OF SURVIVING MEMBERS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY,
HELD AT PHILADELPHIA
FOR
PROMOTING USEFUL KNOWLEDGE.

Corrected to January 17, 1890,
BY
HENRY PHILLIPS, JR.,
A Secretary of the Society.

*List of surviving Members of the American Philosophical Society
held at Philadelphia for Promoting Useful Knowledge.*

The addresses here given so far as known are at the present time. Corrections of this list are respectfully solicited.

A name printed in *italics* indicates that the Society is uncertain as to whether such member is still living and desires information on the subject.

The Society will be happy to receive *photographs* of such of its members as have not already sent.

A

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1637. ABBÉ, CLEVELAND.	July 21, 1871,	Army Weather Bureau, Washington, D. C.
2170. ABBOTT, CHARLES C.	Dec. 20, 1889,	Trenton, N. J.
1463. ABBOTT, HENRY L.	April 18, 1862,	New York City, N. Y.
1809. ÅCKERMAN, RICHARD.	July 21, 1876,	Stockholm, Sweden.
1713. ACLAND, HENRY W.	Jan'y 17, 1873,	Oxford, England.
2128. ADAM, LUCIEN.	Dec. 17, 1896,	Rennes, France.
2031. ADAMS, H. B.	May 21, 1886,	Baltimore, Md.
1238. ADAMS, JOHN COUCH.	Jan'y 21, 1848,	Cambridge, England.
1351. <i>Adamson, Rev. John C.</i>	July 13, 1856,	
1779. AGASSIZ, ALEXANDER.	April 16, 1875,	Cambridge, Mass.
1642. AGASSIZ, ELIZABETH.	Oct. 15, 1869,	" "
1701. AGNEW, D. HAYES.	April 19, 1872,	Philadelphia.
1886. AIRY, GEORGE BIDDLE, SIR. . . .	July 18, 1879,	Greenwich, England.
2091. ALBRECHT, PAUL.	May 21, 1886,	Hamburg, Germany.
1812. ALCANTARA, DOM PEDRO D'. . . .	Oct. 20, 1876,	
1860. ALISON, ROBERT H.	May 3, 1878,	Ardmore, Pa.
1869. ALLEN, JOEL ASAPH.	Sept. 20, 1878,	New York, N. Y.
1571. ALLEN, HARRISON.	Jan'y 18, 1867,	Philadelphia.
1776. ALLISON, JOSEPH.	April 16, 1875,	"
1927. AMES, CHARLES G.	Jan'y 21, 1881,	Boston, Mass.
2064. ANDERSON, GEORGE B.	Feb'y 19, 1886,	West Point, N. Y.
1655. ANDERSON, GEORGE W.	Oct. 15, 1869,	Bryn Mawr, Pa.
1576. ANDERSON, M. B.	Jan'y 18, 1867,	Rochester, N. Y.
2164. ANGELL, JAMES B.	Oct. 18, 1889,	Ann Arbor, Mich.
1122. <i>Angelia, Pedro de</i>	Jan'y 17, 1840,	<i>Buenos Ayres.</i>
2102. ARGYLL, DUKE OF.	May 21, 1886,	London, England.
1761. ARMSTRONG, WM. GEORGE, SIR. . .	July 17, 1874,	Newcastle-on-Tyne, England.
1996. ASHHURST, JOHN.	Jan'y 18, 1884,	Philadelphia.
2012. ASHHURST, RICHARD L.	April 18, 1884,	"

B

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1995. BACHE, RICHARD MEADE	Jan'y 18, 1884,	Philadelphia.
1832. BACHE, THOMAS HEWSON	Feb'y 2, 1877,	"
1630. BAIRD, HENRY CAREY	Jan'y 15, 1869,	"
1991. BAIRD, HENRY M.	Jan'y 18, 1884,	New York, N. Y.
2015. BAKER, JOHN R.	April 18, 1884,	Philadelphia.
2075. BAKER, WILLIAM S.	May 21, 1886,	"
1157. BANCROFT, GEORGE	July 16, 1841,	Washington, D. C.
1936. BARBER, EDWIN ATLEE	April 15, 1881,	West Chester, Pa.
1818. BARCENA, MARIANO	Feb'y 2, 1877,	Mexico.
1741. BARKER, GEORGE F.	April 18, 1873,	Philadelphia.
2011. BARKER, WHARTON	April 18, 1884,	"
2144. BARNARD, WILLIAM T.	May 20, 1887,	Baltimore, Md.
1902. BARTHOLOW ROBERTS	April 16, 1880,	Philadelphia.
1133. BARTLETT, W. H. C.	April 17, 1840,	Yonkers, N. Y.
2119. BASTIAN, ADOLPH	Dec. 17, 1886,	Berlin, Germany.
1934. BEAULIEU, PAUL LEROY	April 15, 1881,	Paris, France.
1968. BELL, ALEXANDER GRAHAM	July 21, 1882,	Washington.
1966. BELL, JOSEPH SNOWDEN	July 21, 1882,	Philadelphia.
1802. BELL, LOWTHIAN, SIR	April 21, 1876,	Newcastle-on-Tyne, England.
2149. BIDDLE, ALEXANDER	Feb'y 17, 1888,	Philadelphia.
2154. BIDDLE, ARTHUR	Dec. 21, 1888,	"
2173. BIDDLE, A. SYDNEY	Dec. 20, 1889,	"
1920. BIDDLE, CADWALADER	Oct. 15, 1880,	"
1831. BIDDLE, CRAIG	Feb'y 2, 1877,	"
2134. BILLINGS, JOHN S.	Feb'y 18, 1887,	Washington, D. C.
1951. BLADES, WILLIAM	Jan'y 20, 1882,	London, England.
2157. BLAIR, ANDREW A.	May 17, 1889,	Philadelphia.
1554. <i>Blair Thomas S.</i>	Jan'y 19, 1866,	Pittsburgh, Pa.
1669. BLAKE, WILLIAM PHIPPS	Oct. 21, 1870,	New Haven, Conn.
1790. BLASIUS, WILLIAM	Oct. 15, 1875,	Philadelphia.
1700. BLODGET, LORIN	April 19, 1872,	"
1905. BOARDMAN, GEORGE DANA	April 16, 1880,	"
1444. BÖHTLINGK, OTTO	Jan'y 17, 1862,	Leipzig, Germany.
2047. BONWILL, W. J. A.	Oct. 16, 1885,	Philadelphia.
852. <i>Borgnis, J. A.</i>	Oct. 20, 1820,	Paris, France. (?)
1126. BOYÉ, MARTIN H.	Jan'y 17, 1840,	Coopersburg, Pa.
1826. BRACKETT, CYRUS FOGG	Feb'y 2, 1877,	Princeton, N. J.
2083. BRANNER, JOHN C.	May 21, 1886,	Little Rock, Ark.
2195. BREZINA, ARISTIDES	May 21, 1886,	Vienna, Austria.
1636. BRINTON, DANIEL G.	April 16, 1869,	Philadelphia.
2069. BRINTON, JOHN H.	Feb'y 19, 1886,	"
1745. BRITTON, J. BLODGETT	Oct. 17, 1873,	"
2080. BROOKS, WILLIAM KEITH	May 21, 1886,	Baltimore, Md.
1881. BROWN, ARTHUR ERWIN	April 18, 1879,	Philadelphia.
1333. BROWN-SEQUARD, E.	Jan'y 20, 1854,	Paris, France.
1614. BRUGH, HENRI	Jan'y 15, 1869,	Berlin, Prussia.
1547. BRUSH, GEORGE J.	Jan'y 20, 1865,	New Haven, Conn.
1653. BULLOCK, CHARLES	Oct. 15, 1869,	Philadelphia.
1452. BUNSEN, ROBERT W.	Jan'y 17, 1862,	Heldelberg, Germany.
2008. BURK, ISAAC	Jan'y 18, 1884,	Philadelphia.
2007. BURK, JESSE Y.	Jan'y 18, 1884,	"
1378. BURMEISTER, HERMANN	April 18, 1856,	Buenos Ayres, S. A.
1938. BUTLER, WILLIAM	April 15, 1881,	West Chester, Pa.

C

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1788. CAMPBELL, JOHN LYLE	July 16, 1875,	Crawfordsville, Ind.
1606. CANBY, WILLIAM MARRIATT . . .	Oct. 16, 1868,	Wilmington, Del.
2051. CANNIZZARO, TOMMASO	Oct. 16, 1885,	Messina, Italy.
1731. CAPELLINI, GIOVANNI	April 18, 1873,	Bologna, Italy.
1628. CARLIER, AUGUSTE	Jan'y 15, 1869,	Paris, France.
1796. CARLL, J. B. F.	Oct. 15, 1875,	Pleasantville, Pa.
2130. CARRILLO, CRESCENCIO	Dec. 17, 1886,	Merida, Yucatan.
1911. CARSON, HAMPTON L.	April 16, 1880,	Philadelphia.
1707. CASSATT, ALEXANDER JOHNSON .	Oct. 18, 1872,	"
2147. CASTNER, SAMUEL, JR.	Dec. 16, 1887,	"
2152. CATTELL, J. MCKEEN	May 18, 1888,	Media, Pa.
1675. CATTELL, WILLIAM C.	Jan'y 20, 1871,	Philadelphia.
1908. CHANCE, HENRY MARTYN	April 16, 1880,	New York, N. Y.
1783. CHANDLER, C. F.	April 16, 1875,	"
1778. CHAPMAN, HENRY C.	April 16, 1875,	Philadelphia.
2132. CHARENCY, HYACINTH DE . . .	Dec. 17, 1886,	St. Maurice les Charency France.
1522. CHASE, THOMAS	Jan'y 15, 1864,	Providence, R. I.
2111. CHILDS, GEORGE W.	Dec. 17, 1886,	Philadelphia.
2158. CLARK, CLARENCE H.	May 17, 1889,	"
1717. CLARKE, THOMAS C.	Jan'y 17, 1873,	New York, N. Y.
1983. CLAYPOLE, E. W.	Jan'y 19, 1883,	Akron, Ohio.
2048. CLEEMANN, T. M.	Oct. 16, 1885,	Philadelphia.
1999. COHEN, J. SOLIS	Jan'y 18, 1884,	"
2005. COLERIDGE, LORD	Jan'y 18, 1884,	London, England.
1555. COPE, EDWARD D.	Jan'y 19, 1866,	Philadelphia.
1367. COPPÉE, HENRY	Jan'y 18, 1856,	Bethlehem, Pa.
2129. CORA, GUIDO	Dec. 17, 1886,	Milan, Italy.
1474. CORNELIUS, ROBERT	Oct. 17, 1862,	Philadelphia.
1867. COUES, ELLIOTT	Sept. 20, 1878,	Washington, D. C.
1662. COX, J. D.	April 15, 1870,	Toledo, O.
1672. COXE, ECKLEY B.	Oct. 21, 1870,	Drifton, Pa.
1836. CRANE, THOMAS F.	Feb'y 2, 1877,	Ithaca, N. Y.
1393. CRESSON, CHARLES M.	April 17, 1857,	Philadelphia.
2100. CROOKES, WILLIAM	May 21, 1886,	London, England.
2172. CRUZ, FERNANDO (of Guatemala)	Dec. 20, 1889,	Washington, D. C.
1439. CURWEN, JOHN	April 18, 1861,	Warren, Pa.

D

1567. DA COSTA, J. M.	Oct. 19, 1866,	Philadelphia.
1354. DANA, JAMES D.	July 21, 1854,	New Haven, Conn.
1806. DANNEFELD, C. JUHLIN	April 21, 1876,	Stockholm, Sweden.
1516. DAUBRÉE, A.	July 17, 1863,	Paris, France.
1811. DAVENPORT, SAMUEL	Oct. 20, 1876,	Adelaide, S. Australia.
1557. DAVIDSON, GEORGE	Jan'y 19, 1866,	San Francisco, Cal.
1980. DAVIS, WILLIAM M.	Jan'y 19, 1883,	Philadelphia.
1923. DAWKINS, WILLIAM B.	Oct. 15, 1880,	Manchester, England.
1468. DAWSON, JOHN W.	April 18, 1862,	Montreal, Canada.
2131. DELGADA, JUAN DE DIAS DE LA RADA Y.	Dec. 17, 1886,	Madrid, Spain.
991. <i>Del Rio, Andres</i>	Oct. 15, 1830,	<i>Mexico.</i>
854. <i>De Montgery</i>	Oct. 20, 1820,	

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1964. DE ROSNY, LÉON	July 21, 1882,	Paris, France.
1876. DES CLOIZEAUX, A.	Oct. 18, 1879,	" "
2045. DE VERE, M. SCHELE.	Oct. 16, 1885,	University of Virginia.
2013. DICKSON, SAMUEL	April 18, 1884,	Philadelphia.
1341. DOHRN, C. A.	Jan'y 20, 1854,	Stettin, Prussia.
2108. DOLLEY, CHARLES S.	Dec. 17, 1886,	Philadelphia.
2089. DONNER, OTTO.	May 21, 1886,	Helsingfors, Finland.
1946. DOOLITTLE, C. L.	Oct. 21, 1881,	Bethlehem, Pa.
1889. DOUGLASS, JAMES, JR.	April 20, 1877,	Spuytenduyvil, N. Y.
1924. DRAPER, DANIEL	Oct. 15, 1880,	New York, N. Y.
1787. DROWN, THOMAS M.	July 16, 1875,	Boston, Mass.
1918. DU BOIS, PATTERSON	Oct. 15, 1880,	Philadelphia.
1878. DUDLEY, CHARLES BENJAMIN . .	Jan'y 17, 1879,	Altoona, Pa.
1921. DUDLEY, THOMAS H.	Oct. 15, 1880,	Camden, N. J.
1615. DÜMICHE, JOHANNES.	Jan'y 15, 1869,	Strasburg, Germany.
2063. DUNCAN, LOUIS	Feb'y 19, 1886,	U. S. Navy.
1573. DUNNING, GEORGE F.	Jan'y 18, 1867,	Farmington, Conn.
1727. DUPONT, EDOUARD	April 18, 1873,	Brussels, Belgium.
2086. DURUY, VICTOR	May 21, 1886,	Paris, France.
1679. DUTTON, CLARENCE E.	Jan'y 20, 1871,	Washington, D. C.

E

1560. EARLE, PLINY.	April 20, 1866,	Northampton, Mass.
2105. EASTON, MORTON W.	Dec. 17, 1886,	Philadelphia.
1917. ECKFELDT, JACOB B.	Oct. 15, 1880,	" "
1825. EDDY, HENRY T.	Feb'y 2, 1877,	Cincinnati, O.
1686. ELIOT, CHARLES W.	April 21, 1871,	Cambridge, Mass.
1981. EMMONS, S. F.	Jan'y 19, 1883,	Washington, D. C.
1799. ETTING, FRANK M.	April 21, 1876,	Concordville, Pa.
1405. <i>Evans, Edmund C.</i>	Jan'y 21, 1859,	
1913. EVANS, JOHN	Oct. 21, 1881,	Hemel Hempstead, Eng.

F

1273. <i>Furnum, Joseph W.</i>	Jan'y 17, 1851,	Camden, N. J.
2153. FAVRE, ALPHONSE.	May 18, 1888,	Geneva, Switzerland.
1901. FLINT, AUSTIN, JR.	April 16, 1880,	New York, N. Y.
1621. FLOWER, WM. HENRY.	Jan'y 15, 1869,	London, England.
1875. FOGGO, EDWARD A.	Oct. 18, 1879,	Philadelphia.
1170. FRALEY, FREDERICK	July 15, 1842,	" "
1912. FRALEY, JOSEPH C.	April 16, 1880,	" "
1551. FRANCIS, JAMES B.	April 21, 1865,	Lowell, Mass.
1695. FRAZER, PERSIFOR	Jan'y 19, 1872,	Philadelphia.
2171. FRIEBIS, GEORGE	Dec. 20, 1889,	" "
1459. FROUDE, J. A.	Jan'y 17, 1862,	London, England.
1739. FULTON, JOHN.	April 18, 1873,	Johnstown, Pa.
1914. FURNESS, HORACE HOWARD . .	April 16, 1881,	Philadelphia.

G

1063. <i>Galvez, Mariano</i>	Oct. 21, 1836,	Guatemala, C. A.
1988. GARRETT, PHILIP C.	April 20, 1883,	Philadelphia.
2014. GARRISON, JOSEPH F.	April 18, 1884,	Camden, N. J.
2079. GATES, M. E.	May 21, 1886,	New Brunswick, N. J.
1025. GATSCHET, ALBERT S.	Oct. 17, 1884,	Washington, D. C.
1897. GEIKIE, ARCHIBALD	Jan'y 16, 1880,	London, England.
1808. GEIKIE, JAMES.	April 21, 1876,	Edinburgh, Scotland.

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
ENTH, FRED. AUGUSTUS.	Jan'y 20, 1854,	Philadelphia.
ENTH, F. A., JR.	Feb'y 19, 1886,	"
EBBS, OLIVER WOLCOTT.	July 21, 1854,	Cambridge, Mass.
ELL, THEODORE NICHOLAS	July 19, 1867,	Washington, D. C.
ELMAN, DANIEL C.	April 21, 1876,	Baltimore, Md.
eraldes, J. P. C. Cassado de. . .	July 20, 1827,	Lisbon, Portugal. (?)
LADSTONE, WM. EWART	Oct. 21, 1881,	London, England.
ODE, G. BROWN	Oct. 18, 1889,	Washington, D. C.
ODELL, WILLIAM	Feb'y 2, 1877,	Philadelphia.
ODFELLOW, EDWARD.	Jan'y 20, 1871,	Washington, D. C.
ODWIN, DANIEL R.	Jan'y 18, 1861,	Philadelphia.
ULD, BEN. APTHORPE	Jan'y 17, 1851,	Cambridge, Mass.
RAFF, FREDERICK	Jan'y 17, 1868,	Philadelphia.
RAY, ELISHA.	Jan'y 18, 1878,	Chicago, Ill.
REEN, TRAILL	Oct. 16, 1868,	Easton, Pa.
REEN, WILLIAM HENRY	April 17, 1863,	Princeton, N. J.
REENE, WILLIAM H.	April 18, 1879,	Philadelphia.
REGORIO, IL MARCHESE ANTONIO DE	Dec. 21, 1838,	Palermo, Italy.
REGORY, HENRY D.	May 17, 1889,	Philadelphia.
rimaldi, Ceva	Oct. 16, 1846,	Naples, Italy.
RISCOM, WM. WOODNUTT	April 15, 1881,	Haverford, Pa.
ROTE, AUGUSTUS RADCLIFFE . . .	Oct. 20, 1876,	
UBERNATIS, ANGELO DE	May 21, 1886,	Florence, Italy.
UYANGOS, PASCUAL DE.	April 19, 1861,	Madrid, Spain.

H

AECKEL, ERNEST.	Oct. 16, 1885,	Jena, Prussia.
AGAN, H. A.	Feb'y 19, 1886,	Cambridge, Mass.
ALE, EDW. EVERETT	Jan'y 21, 1870,	Roxbury, Mass.
ALE, HORATIO	Oct. 18, 1872,	Clinton, Canada.
ALL, ASAPH	Jan'y 18, 1878,	Washington, D. C.
ALL, CHARLES EDWARD	Oct. 15, 1875,	Westport, N. Y.
ALL, JAMES	July 21, 1854,	Albany, N. Y.
ALL, LYMAN B	Jan'y 16, 1885,	Haverford, Pa.
AMMOND, WILLIAM A	Oct. 21, 1859,	New York, N. Y.
ARDING, GEORGE	Jan'y 20, 1851,	Philadelphia.
ARRIS, JOSEPH S.	May 20, 1887,	"
ART, JAMES MORGAN.	Feb'y 2, 1877,	Cincinnati, O.
ARTSHORNE, HENRY.	July 17, 1863,	Philadelphia.
AUER, FRANZ RITTER VON. . . .	Oct. 16, 1874,	Vienna, Austria.
AUPT, HERMANN.	April 21, 1871,	Washington, D. C.
AUPT, LEWIS M.	May 3, 1878,	Philadelphia.
AYES, R. SOMERS.	May 21, 1836,	New York, N. Y.
AYS, J. MINIS	Feb'y 19, 1886,	Philadelphia.
AZLEHURST, HENRY	Oct. 18, 1889,	"
EILPRIN, ANGELO	April 20, 1883,	"
ELMHOLTZ, HEINRICH	April 18, 1873,	Berlin, Prussia.
ELGARD, J. E.	April 17, 1863,	Washington, D. C.
ELL, HAMILTON ANDREWS	April 21, 1882,	Boston, Mass.
ELL, THOMAS.	April 17, 1863,	Portland, Me.
ELPRECHT, HERMANN V.	Dec. 17, 1886,	Philadelphia.
EMES, CHARLES FRANCIS	Oct. 16, 1874,	Carlisle, Pa.
ETCHCOCK, CHARLES HENRY. . .	April 15, 1870,	Hanover, N. H.
OCKLEY, THOMAS	Jan'y 16, 1835,	Philadelphia.

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LIST OF SURVIVING MEMBERS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY,
HELD AT PHILADELPHIA
FOR
PROMOTING USEFUL KNOWLEDGE.

Corrected to January 17, 1890,
BY
HENRY PHILLIPS, JR.,
A Secretary of the Society.

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1335. MEIGS, MONTGOMERY C	Jan'y 20, 1854,	Washington, D. C.
1903. MERRICK, JOHN VAUGHAN	April 16, 1830,	Philadelphia.
1947. MERRIMAN, MANSFIELD	Oct. 21, 1881,	Bethlehem, Pa.
1744. MESSCHERT, MATHW HUIZINGA.	Oct. 17, 1873,	Douglassville, Pa.
2142. MICHAEL, HELEN ABBOTT.	May 20, 1887,	Philadelphia.
1461. MITCHELL, S. WEIR	Jan'y 17, 1862,	"
1735. MOMMSEN, THEODORE	April 18, 1873,	Berlin, Prussia.
2114. MONIER-WILLIAMS, MONIER	Dec. 17, 1886,	London, England.
1791. MOORE, GIDEON E	Oct. 15, 1875,	New York, N. Y.
2029. MOORE, JAMES W	Jan'y 16, 1885,	Easton, Pa.
1841. MOREHOUSE, GEORGE R	April 20, 1877,	Philadelphia.
1054. <i>Morelli</i>	Jan'y 15, 1836,	<i>Naples, Italy.</i>
1976. MORRIS, J. CHESTON.	Jan'y 19, 1833,	Philadelphia.
1577. MORTON, HENRY	Jan'y 18, 1867,	Hoboken N. J.
2121. MUCH, MATTHÆUS.	Dec. 17, 1886,	Vienna, Austria.
1866. MUHLENBERG, F. A.	Sept. 20, 1878,	Philadelphia.
2120. MUELLER, FRIEDERICH	Dec. 17, 1886,	Vienna, Austria.
1486. MUELLER, F. MAX.	Jan'y 16, 1863,	Oxford, England.
1892. MUONI, DAMIANO	Jan'y 16, 1880,	Milan, Italy.
2062. MURDOCK, J. B.	Feb'y 19, 1886,	U. S. Navy.
1937. MURRAY, JAMES A. H.	April 15, 1881,	Oxford, England.

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2087. NADAILLAC, MARQUIS DE.	May 21, 1886,	Paris, France.
1575. NEWBERRY, JOHN S.	Jan'y 18, 1867,	New York, N. Y.
1852. NEWCOMB, SIMON	Jan'y 18, 1878,	Washington, D. C.
1582. NEWTON, HUBERT ANSON	April 19, 1869,	New Haven, Conn.
1703. NICHOLS, STARR HOYT	July 19, 1872,	New York, N. Y.
2060. NIKITIN, SERGE	Feb'y 19, 1866,	St. Petersburg, Russia.
1805. NORDENSKIÖLD, ADOLF ERIC . . .	April 21, 1876,	Stockholm, Sweden.
1712. NORRIS, ISAAC, JR.	Oct. 18, 1872,	Philadelphia.
2106. NORRIS, WILLIAM F.	Dec. 17, 1886,	"
2046. NORTH, EDWARD.	Oct. 16, 1885,	Clinton, N. Y.

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2072. OLIVER, CHARLES A.	Feb'y 19, 1886,	Philadelphia.
1715. OLIVER, JAMES E.	Jan'y 17, 1873,	Ithaca, N. Y.
2135. OSBORN, HENRY F.	Feb'y 18, 1887,	Princeton, N. J.
1591. OSBORN, HENRY S.	Jan'y 18, 1867,	Oxford, O.
2039. OSLER, WILLIAM	Jan'y 16, 1885,	Baltimore, Md.
1801. OWEN, P. CUNLIFFE, SIR	April 21, 1876,	London, England.
1212. OWEN, RICHARD	Jan'y 17, 1845,	" "

P

1863. PACKARD, A. S., JR.	Sept. 20, 1878,	Providence, R. I.
1578. PACKARD, JOHN H.	Jan'y 18, 1867,	Philadelphia.
1331. PAGET, JAMES, SIR.	Jan'y 20, 1854,	London, England.
1984. PANCOAST, WILLIAM HENRY . . .	Jan'y 19, 1883,	Philadelphia.
1593. PARDEE, ARIO	Oct. 18, 1867,	Hazleton, Pa.
1673. PARIEU, ESQUIRON DE	Jan'y 20, 1871,	Paris, France.
2036. PARVIN, THEOPHILUS	Jan'y 16, 1885,	Philadelphia.
2056. PASTEUR, LOUIS	Oct. 16, 1885,	Paris, France.
2035. PATTERSON, C. STUART.	Jan'y 16, 1885,	Philadelphia.
1282. PATTERSON, ROBERT	April 18, 1831,	"

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1320. <i>Patterson, Thomas L.</i>	April 15, 1853.	<i>Cumberland, Md.</i>
1772. PEARSE, JOHN B.	Jun'y 15, 1875.	Boston, Mass.
1722. PEMBERTON, HENRY.	Jan'y 17, 1873.	Philadelphia.
2101. PESAFIEL, ANTONIO	May 21, 1886.	Berlin, Prussia.
1777. PENINGTON, EDWARD	April 16, 1875.	Philadelphia.
2073. PENNYPACKER, SAMUEL W.	May 21, 1886.	"
1518. PENROSE, R. A. F.	July 17, 1863.	"
2059. PEPPER, EDWARD	Feb'y 19, 1886.	Paris.
1666. PEPPER, WILLIAM	July 15, 1870.	Philadelphia.
951. <i>Pereira, José Maria Dantes.</i>	April 18, 1828.	<i>Lisbon, Portugal.</i>
1705. PETER, ROBERT	July 19, 1872.	Lexington, Ky.
1855. PETERS, C. H. F.	Jan'y 18, 1878.	Clinton, N. Y.
1824. PHILLIPS, HENRY, JR.	Feb'y 2, 1877.	Philadelphia.
1859. PIERCE, C. NEWLIN.	May 3, 1878.	"
1760. PLATT, FRANKLIN	July 17, 1874.	Philadelphia.
2127. PLATZMAN, JULIUS.	Dec. 17, 1886.	Leipzig, Germany.
2033. POMIALOWSKY, JOHN	Oct. 16, 1835.	St. Petersburg, Russia.
1539. PORTER, THOMAS CONRAD	Oct. 21, 1864.	Easton, Pa.
2044. POTTS, WILLIAM JOHN	Oct. 16, 1885.	Camden, N. J.
2097. POSTGATE, J. P.	May 21, 1886.	Cambridge, England.
1216. <i>Poussin, William Tull.</i>	Jan'y 17, 1882.	<i>Paris, France.</i>
2161. POWELL, J. W.	Oct. 18, 1889.	Washington, D. C.
1619. PRESTWICH, JOSEPH	Jan'y 15, 1869.	Shoreham, England.
1592. PRICE, J. SERGEANT	Oct. 18, 1867.	Philadelphia.
1780. PRIME, FREDERICK, JR.	April 16, 1875.	"
2088. PULZSKY, FRANCIS	May 21, 1886.	Buda-Pesth, Hungary.
1758. PUMPELLY, RAPHAEL	April 17, 1874.	Newport, R. I.

Q

973. <i>Quadrada, Francisco de Paolo</i>	Oct. 16, 1829.	<i>Madrid, Spain.</i>
1143. <i>Quaranta, Barnardo.</i>	Jan'y 15, 1841.	<i>Naples, Italy.</i>

R

1448. RAMSAY, ANDREW C.	Jan'y 17, 1862.	London, England.
1736. RAND, THEODORE D.	April 18, 1873.	Philadelphia.
1849. RANDALL, F. A.	Jan'y 18, 1878.	Warren, Pa.
1644. RAWLINSON, GEORGE.	Oct. 15, 1869.	Oxford, England.
1765. RAWSON, RAWSON W.	Oct. 16, 1874.	London, "
2099. RAYLEIGH, LORD	May 21, 1886.	Essex, England.
1784. RAYMOND, ROSSITER W.	April 16, 1875.	New York, N. Y.
1585. RAYNOLDS, WILLIAM F.	April 19, 1867.	Detroit, Mich.
1591. READ, JOHN MEREDITH	July 19, 1867.	"
2077. REED, HENRY	May 21, 1886.	Philadelphia.
1842. REED, THOMAS B.	April 20, 1877.	"
1889. REMSEN, IRA	July 18, 1879.	Baltimore, Md.
1485. RENAN, ERNEST	Jan'y 16, 1863.	Paris, France.
1918. RENARD, A.	Oct. 21, 1881.	Brussels, Belgium.
1343. RENARD, CHARLES	Jan'y 20, 1854.	Moscow, Russia.
1890. RENEVIERS, E.	July 18, 1879.	Lausanne, Switzerland.
1816. REULEAUX, F.	Feb'y 2, 1877.	Berlin, Prussia.
2122. RÉVILLE, ALBERT	Dec. 17, 1886.	Paris, France.
1500. RICHARDSON, BEN. WARD	April 17, 1863.	London, England.
1803. RILEY, CHARLES V.	April 21, 1876.	Washington, D. C.
2038. ROBERTS, GEORGE B.	Jan'y 16, 1885.	Philadelphia.
1937. ROBINS, JAMES M.	April 21, 1882.	"

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1025. ROBINSON, MONCURE	Jan'y 18, 1833,	Philadelphia.
1364. <i>Rogers, E. P.</i>	April 20, 1855.	
1390. ROGERS, FAIRMAN	Jan'y 16, 1857,	Newport, R. I.
1906. ROGERS, WILLIAM B., JR	April 16, 1880,	Philadelphia.
1462. RÖHRIG, F. L. O.	April 18, 1862,	Los Angeles, Cal.
2050. ROLLETT, HERMANN	Oct. 16, 1885,	Vienna, Austria.
1907. ROOD, OGDEN N.	April 16, 1880,	New York, N. Y.
1732. ROSSI, GIOVANNI BATTISTA. . . .	April 18, 1873,	Rome, Italy.
1718. ROTHERMEL, PETER F.	Jan'y 17, 1873,	Limerick P. O., Pa.
1838. ROTHROCK, JOSEPH T.	April 20, 1877,	Philadelphia.
1264. RUSCHENBERGER, WM. S. W. . . .	Oct. 19, 1849,	"
1620. RÜTIMEYER, CARL L.	Jan'y 15, 1869,	Basel, Switzerland.
2109. RYDER, JOHN A.	Dec. 17, 1886,	Philadelphia.

S

1766. SADTLER, SAMUEL PHILIP	Oct. 16, 1874,	Philadelphia.
2148. SAJOUS, CHARLES E.	Feb'y 17, 1888,	"
2103. SANCHEZ, JESUS	May 21, 1886,	Mexico, Mexico.
1563. SANDBERGER, FRIDOLIN	April 20, 1866,	Würzburg, Bavaria.
1033. <i>Santarem, Viscount.</i>	July 19, 1833,	Lisbon, Portugal.
1958. SARGENT, CHARLES SPRAGUE . .	April 21, 1882,	Brookline, Mass.
1730. SAUSSURE, HENRI DE.	April 18, 1873,	Geneva, Switzerland.
1877. SCHORLEMMER, C.	Oct. 18, 1878,	Manchester, England.
1498. SCHOTT, CHARLES ANTHONY . . .	April 17, 1863,	Washington, D. C.
1864. SCHURZ, CARL	Sept. 20, 1878.	
1725. SCLATER, PHILLIP LUTLEY. . . .	April 18, 1873,	London, England.
1919. SCOTT, LEWIS A.	Oct. 15, 1880,	Philadelphia.
2112. SCOTT, W. H.	Dec. 17, 1886,	Princeton, N. J.
1870. SCUDDER, SAMUEL HUBBARD. . .	Sept. 20, 1878,	Cambridge, Mass.
1656. SEIDENSTICKER, OSWALD	Jan'y 21, 1870,	Philadelphia.
1883. SEILER, CARL	April 18, 1879,	"
1704. SELLERS, COLEMAN	July 19, 1872,	"
1533. SELLERS, WILLIAM.	April 15, 1864,	"
1770. SELWYN, ALFRED R. C.	Oct. 16, 1874,	Montreal, Canada.
1333. SEQUARD, E. BROWN.	Jan'y 20, 1851,	Paris, France.
2057. SERGI, GIUSEPPE.	Oct. 16, 1885,	Rome, Italy.
1965. SÈVE DE BAR, ÉDOUARD	July 21, 1882,	Brussels, Belgium.
2076. SHARP, BENJAMIN.	May 21, 1886,	Philadelphia.
1944. SHARPLES, PHILIP PRICE	Oct. 21, 1881,	West Chester Pa.
1960. SHARPLES, STEPHEN PASCHALL. .	April 21, 1882,	Boston, Mass.
2002. SHARPLES, ISAAC	Jan'y 18, 1884,	Haverford, Pa.
1514. SHEAFER, PETER WENRICH	July 17, 1863,	Pottsville, Pa.
1792. SHEPPARD, FURMAN.	Oct. 15, 1875,	Philadelphia.
1797. SHERWOOD, ANDREW	Oct. 15, 1875,	Mansfield, Pa.
1822. SHIELDS, CHARLES W.	Feb'y 2, 1877,	Princeton, N. J.
1532. <i>Shinz, Carl.</i>	April 15, 1864,	Strasburg, Germany. (?)
2124. SIMÉON, REMI	Dec. 17, 1886,	Paris, France.
1414. SMITH, AUBREY H.	Jan'y 20, 1860,	Philadelphia.
2146. SMITH, EDGAR F.	Oct. 21, 1887,	"
1544. SMITH, GOLDWIN.	Jan'y 20, 1865.	
1789. SMITH, STEPHEN	Oct. 15, 1875,	New York, N. Y.
2141. SMYTH, ALBERT H.	May 20, 1887,	Philadelphia.
1742. SNOWDEN, A. LOUDON	Oct. 17, 1873,	"
2009. SNYDER, MONROE B.	Jan'y 18, 1884,	Philadelphia.
1720. SPOFFORD, A. H.	Jan'y 17, 1873,	Washington, D. C.

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1949. STALLO, JOHN B.	Oct. 21, 1881,	Cincinnati, O.
1446. STEENSTRUP, J. J. S.	Jan'y 17, 1862,	Copenhagen, Denmark.
1990. STEVENS, WALTER LeCONTE . . .	Jan'y 18, 1884,	Brooklyn, N. Y.
1840. STEVENSON, JOHN JAMES. . . .	April 20, 1877,	New York, N. Y.
2168. STOKES, SIR GEORGE G.	Dec. 20, 1889,	London, England.
1167. STORER, D. HUMPHREYS	April 15, 1842,	Boston, Mass.
1834. STRAWBRIDGE, GEORGE	Feb'y 2, 1877,	Philadelphia.
1559. STRONG, WILLIAM	Jan'y 19, 1866,	Washington, D. C.
1820. STUART, GEORGE.	Feb'y 2, 1877,	Philadelphia.
1527. STUDER, BERNARD.	April 15, 1864,	Berne, Switzerland.
2093. STUER, DIONYS.	May 21, 1886,	Vienna, Austria.
2094. SUESS, EDWARD.	May 21, 1886,	" "
2023. SYLE, E. W.	July 18, 1884,	Philadelphia.
1844. SYLVESTER, J. J.	July 20, 1877,	Oxford, England.
2092. SZOMBATHY, JOSEF.	May 21, 1886,	Vienna, Austria.

T

1786. TATHAM, WILLIAM P.	April 16, 1875,	Philadelphia.
1846. TAYLOR, WILLIAM B.	Oct. 19, 1877,	Washington, D. C.
2098. TEMPLE, RICHARD CARNAC . . .	May 21, 1886,	Upper Burmah, India.
2006. THOMAS, ALLEN C.	Jan'y 18, 1884,	Haverford, Pa.
1807. THOMPSON, ELIHU	April 21, 1876,	Lynn, Mass.
1993. THOMPSON, HEBER S.	Jan'y 18, 1884,	Pottsville, Pa.
1726. THOMPSON, HENRY.	April 18, 1873,	London, England.
1755. THOMPSON, ROBERT ELLIS . . .	April 17, 1874,	Philadelphia.
1754. THOMSON, FRANK	April 17, 1874,	Philadelphia.
1723. THOMSON, WILLIAM	April 18, 1873,	London, England.
1909. THOMSON, WILLIAM	April 16, 1880,	Philadelphia.
1530. THURY, A.	April 15, 1864,	Geneva, Switzerland.
1688. TILGHMAN, BENJAMIN C. . . .	July 21, 1871,	Philadelphia.
1233. TILGHMAN, RICHARD A.	April 16, 1847,	"
1657. TILGHMAN, WILLIAM M.	Jan'y 21, 1870,	"
2123. TOPINARD, PAUL.	Dec. 17, 1886,	Paris, France.
2065. TOPPAN, ROBERT NOXON. . . .	Feb'y 19, 1886,	Cambridge, Mass.
1597. TOWNSEND, JOSEPH B.	Jan'y 17, 1868,	Philadelphia.
1955. TOWNSEND, WASHINGTON	Jan'y 20, 1882,	West Chester, Pa.
1691. TROWBRIDGE, WILLIAM P. . . .	Jan'y 19, 1872,	New York, N. Y.
2024. TRUMBULL, HENRY CLAY	July 18, 1881,	Philadelphia.
1973. TSCHERMAK, GUSTAF	Oct. 20, 1882,	Vienna, Austria.
2166. TUTTLE, DAVID K.	Oct. 18, 1889,	Philadelphia.
2163. TYLER, LYON G.	Oct. 18, 1889,	Williamsburg, Va.
1529. TUNNER, PETER	April 15, 1864,	Leoben, Austria.
1602. TYNDALL, JOHN	April 17, 1868,	London, England.
2188. TYSON, JAMES	May 20, 1887,	Philadelphia.

V

2000. VAUX, RICHARD.	Jan'y 18, 1884,	Philadelphia.
1475. VIRCHOW, RUDOLPH.	Oct. 17, 1862,	Berlin, Prussia.
1646. VOGT, CARL	Oct. 15, 1869,	Geneva, Switzerland
2115. VON MELTZEL, HUGO	Dec. 17, 1886,	Kolozsvár, Hungary.
1670. VÖSE, GEORGE LEONARD.	Oct. 21, 1870,	Boston, Mass.

W

2034. WAGNER, SAMUEL	Jan'y 16, 1885,	Philadelphia.
1748. WAHL, WILLIAM H.	Jan'y 16, 1874,	"

<i>Name.</i>	<i>Date of Election.</i>	<i>Present Address.</i>
1724. WALLACE, ALFRED R.	April 18, 1873,	Croydon, England.
2156. WARD, LESTER F.	May 17, 1889,	Washington, D. C.
2033. WEIL, EDWARD HENRY	Jan'y 16, 1887,	Philadelphia.
2117. WEIL, G.	Dec. 17, 1886,	Heidelberg, Germany.
2028. WEISBACH, ALBIN	Jan'y 16, 1885,	Freiburg, Saxony.
2017.*WELSH, HERBERT	April 18, 1884,	Philadelphia.
1975. WESTWOOD, JOHN O.	Jan'y 19, 1883,	Oxford, England.
1639. WHARTON, JOSEPH.	April 16, 1869,	Philadelphia.
1637. WHITE, ANDREW D.	April 16, 1869,	Ithaca, N. Y.
1818. WHITE, I. C.	Jan'y 18, 1878,	Morgantown, W. Va.
1487. WHITNEY, JOSIAH DWIGHT	Jan'y 16, 1863,	Cambridge, Mass.
1502. WHITNEY, WILLIAM DWIGHT.	April 17, 1813,	New Haven, Conn.
1659. WHITTIER, JOHN GREENLEAF.	Jan'y 21, 1870,	Amesbury, Mass.
1868. WILDER, BURT GREEN.	May 3, 1878,	Ithaca, N. Y.
2151. WILLIAMS, TALCOTT	May 18, 1888,	Philadelphia.
1489. WILSON, DANIEL.	Jan'y 16, 1863,	Toronto, Canada.
2150. WILSON, EDMUND B.	Feb'y 17, 1888,	Bryn Mawr, Pa.
2041. WILSON, JAMES C.	Jan'y 16, 1885,	Philadelphia.
1747. WILSON, JOSEPH M.	Jan'y 16, 1874,	"
2137. WILSON, WILLIAM POWELL	May 20, 1887,	"
1545. WINCHELL, ALEXANDER.	Jan'y 20, 1865,	Ann Arbor, Mich.
1896. WINTHROP, ROBERT C.	Jan'y 16, 1880,	Boston, Mass.
2140. WIREMAN, HENRY D.	May 20, 1887,	Philadelphia.
1561. WISTER, OWEN JONES.	April 20, 1866,	"
1884. WOOD, RICHARD.	April 18, 1879,	"
1762. WOODWARD, HENRY.	July 17, 1874,	London, England.
1751. WOOTTEN, J. E.	Jan'y 16, 1874,	Reading, Pa.
1854. WORMLEY, THEODORE G.	Jan'y 18, 1878,	Philadelphia.
1488. WORTHEN, A. H.	Jan'y 16, 1863,	Springfield, Ill.
1932. WURTS, CHARLES STEWART.	Jan'y 21, 1881,	Philadelphia.
2061. WYCKOFF, A. B.	Feb'y 19, 1886,	U. S. Navy.

Y

1904. YARNALL, ELLIS	April 16, 1880,	Philadelphia.
1759. YOUNG, CHARLES AUGUSTUS.	April 17, 1874,	Princeton, N. J.

LIST OF THE MEMBERS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY,

HELD AT PHILADELPHIA,

FOR PROMOTING USEFUL KNOWLEDGE,

Formed on the 2d of January, 1769, by a Union of the "American Philosophical Society," and the "American Society held at Philadelphia for Promoting Useful Knowledge."

JANUARY 17, 1890.

1

LIST OF THE MEMBERS
OF THE
AMERICAN PHILOSOPHICAL SOCIETY

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ORIGINAL MEMBERS

OR MEMBERS AT THE TIME OF UNION.

I. Members common to the two Component Societies.

1. **Benjamin Franklin.** Original member of the A. P. S. 1743. Elected member of the A. S. Feb. 19, 1768. Died April 17, 1790, æt. 84.
2. **John Bartram,** F. R. S. and Botanist to his Majesty. Orig. mem. A. P. S. 1743. Mem. A. S. Feb. 19, 1768. Died Sept. 1777, æt. 76.
3. **Dr. Cadwalader Evans.** A. P. S. Nov. 1767. A. S. Jan. 19, 1768. Died 1773, æt. 57.
4. **John Lukens,** Surveyor-General of Pennsylvania. A. P. S. Jan. 12, 1768. A. S. Oct. 3, 1766. Died 1789.
5. **Joseph Galloway,** Speaker of the Assembly of Pennsylvania. A. P. S. Jan. 19, 1768. A. S. Dec. 2, 1768. Died Aug. 20, 1803, æt. 74.
6. **Dr. Thomas Cadwalader.** A. P. S. Jan. 19, 1768. A. S. Oct. 14, 1768. Died Nov. 14, 1779, æt. 72.
7. **Dr. John Redman.** A. P. S. Jan. 19, 1768. A. S. Oct. 14, 1768. Died March 19, 1808, æt. 86.
8. **John Dickinson.** A. P. S. Jan. 19, 1768. A. S. Jan. 19, 1768. Died Feb. 14, 1808, æt. 75.
9. **Dr. Charles M. Moore.** A. P. S. Jan. 26, 1768. A. S. April 8, 1768. Died Dec. 15, 1778, æt. 66.

10. **Francis Hopkinson.** A. P. S. Jan. 26, 1768. A. S. April 8, 1768. Died May 9, 1791, æt. 53.
11. **Dr. Alexander Garden,** Charleston, S. C. A. P. S. Jan. 26, 1768. A. S. April 15, 1768. Died April 15, 1792, æt. 64.
12. **John Kidd,** Bucks Co., Pennsylvania. A. P. S. March 8, 1768. A. S. April 1, 1768. Died
13. **William Franklin,** Governor of New Jersey. A. P. S. March 8, 1768. Orig. mem. A. S. 1758. Died Nov. 17, 1813, æt. 82.
14. **Stephen Watts.** A. P. S. March 8, 1768. A. S. April 8, 1768. Died 1788, æt. 51.
15. **Rev. Jacob Duché.** A. P. S. March 8, 1768. A. S. April 8, 1768. Died Jan. 3, 1798, æt. 60.
16. **John Foxcroft.** A. P. S. March 8, 1768. A. S. April 8, 1768. Died
17. **John Sellers,** Surveyor, Derby, Chester Co., Pa. A. P. S. March 8, 1768. A. S. April 1, 1768. Died Feb. 2, 1804, æt. 76.
18. **Dr. Thomas Græme.** A. P. S. March 8, 1768. A. S. Oct. 14, 1768. Died Sept. 4, 1772, æt. 84. (1794?)
19. **Capt. Oswell Eve.** A. P. S. March 22, 1768. A. S. Feb. 26, 1768. Died
20. **James Wright,** Lancaster Co., Pa. A. P. S. May 18, 1768. A. S. April 8, 1768. Died
21. **Hon. Charles Read,** Esq., Burlington, N. J. A. P. S. May 18, 1768. A. S. June 3, 1768. Died
22. **John Smith,** Burlington, N. J. A. P. S. May 18, 1768. A. S. June 3, 1768. Died March 26, 1771, æt. 49.
23. **Hon. Edward Antill,** Esq., New Jersey. A. P. S. Aug. 16, 1768. A. S. April 8, 1768. Died
24. **Dr. Benjamin Gale,** Killingsworth, Conn. A. P. S. Aug. 16, 1768. A. S. Aug. 13, 1768. Died 1790, æt. 75.
25. **Dr. Ashton Warner,** Antigua. A. P. S. Aug. 16, 1768. A. S. April 15, 1768. Died
26. **William Cullen,** M.D., Edinburgh. A. P. S. Oct. 18, 1768. A. S. April 15, 1768. Died

II. *Members belonging exclusively to the American Philosophical Society.*

27. **William Coleman,** Ass. Justice, S. C. Original member. Died Jan., 1769.
28. **Dr. Thomas Bond.** Original member. Died March 26, 1784, æt. 72.
29. **Dr. Phineas Bond.** Original member. Died June, 1773, æt. 56.
30. **Samuel Rhoads.** Original member. Died April (?) 29, 1784.
31. **Hon. Cadwalader Colden.** Lt. Governor of New York. Original member. Died Sept. 28, 1776, æt. 88.
32. **Rev. Francis Allison.** Vice-Provost of the College of Philadelphia. Original member. Died Nov. 28, 1779 (1780?), æt. 72.

Elected November, 1767.

33. **Dr. William Shippen.** Died Nov. 4, 1801, æt. 89.
34. **Dr. William Shippen, Jr.,** Prof. Anat. Coll. Phil. Died July 11, 1808.

Elected January 12, 1768.

- 35. **Philip Syng, Sen.** Died May 8, 1789, æt. 85.
- 36. **Rev. William Smith**, Provost C. Phila. Died May 14, 1803, æt. 76.
- 37. **George Bryan**, Esq. Died Jan. 28, 1791, æt. 60.
- 38. **Rev. John Ewing**. Died Aug. 28, 1802, æt. 70.
- 39. **Edward Shippen, Jr.**, Esq. Died April 16, 1806, æt. 77.

Elected January 19, 1768.

- 40. **David Rittenhouse**. Died June 26, 1796, æt. 64.
- 41. **Hugh Roberts**. Died July 23, 1786, æt. 80.
- 42. **Israel Pemberton**. Died April 22, 1779, æt. 64.
- 43. **James Tilghman**, Esq. Died Aug. 24, 1793, æt. 76.
- 44. **William Logan**, Esq. Died Oct. 28, 1776, æt. 58.
- 45. **Joseph Shippen, Jr.**, Esq. Died Feb. 11, 1810, æt. 78.
- 46. **Thomas Willing**, Esq. Died Jan. 19, 1821, æt. 89.
- 47. **Benjamin Chew**, Esq. Died Jan. 10, 1810, æt. 87.
- 48. **Dr. Adam Kuhn**, Prof. Bot. and M. M. C. Phila. Died July 5, 1817, æt. 75.
- 49. **James Pemberton**. Died Feb. 9, 1809, æt. 86.
- 50. **Thomas Pryor**. Died
- 51. **Dr. Hugh Williamson**. Died May 22, 1819, æt. 85.
- 52. **Hon. John Penn**, Esq. Died February, 1795, æt. 66.
- 53. **Hon. James Hamilton**, Esq. Died Aug. 14, 1783.
- 54. **Hon. William Allen**, Esq., Chief Justice Penna. Died September, 1780, æt. 70.

Elected January 26, 1768.

- 55. **Rev. Ebenezer Kinnersley**, Prof. Eng., etc., Coll. Pennsylvania. Died July 4, 1778, æt. 67.
- 56. **John Reynell**. Died Sept. 3, 1784.
- 57. **Lynford Lardner**, Esq. Died Oct. 6, 1774, æt. 59.
- 58. **Joseph Richardson**, Merchant. Died
- 59. **Richard Penn**, Esq. Died Jan. 29, 1771, æt. 67.
- 60. **John Ross**, Esq. Died May 8, 1776, æt. 62.
- 61. **Andrew Allen**, Esq. Died March 7, 1825, æt. 85.
- 62. **Thomas Coombe**, Esq. Died Sept. 29, 1799, æt. 78.
- 63. **James Allen**, Esq. Died Sept. 18, 1778.
- 64. **Jonathan B. Smith**. Died June 16, 1812, æt. 71.
- 65. **John Allen**, Esq. Died Feb., 1778.
- 66. **Alexander Stedman**, Esq. Died
- 67. **Daniel Dulany**, Esq., Annapolis, Md. Died March 19, 1797, æt. 76.
- 68. **Dr. Arthur Lee**, Virginia. Died Dec. 14, 1792, æt. 42.
- 69. **Rev. Ezra Stiles**. Died May 12, 1795, æt. 68.
- 70. **John Winthrop**, Esq., F. R. S., Hollis Prof. Math. Cambridge, N. Eng. Died May 3, 1779, æt. 65.

Elected March 8, 1768.

- 71. **Edward Duffield**. Died July 12, 1803, æt. 73.
- 72. **Samuel Mifflin**, Esq. Died
- 73. **David Hall**, Printer. Died 1773.

- 74. **Rev. Thomas Barton**, Lancaster, Pa. Died May 25, 1780, æt. 50.
- 75. **Robert Smith**, Architect. Died
- 76. **Thomas Smith**. Died May 23, 1795, æt. 84.
- 77. **Thomas Barnsley**, Bucks Co., Pennsylvania. Died
- 78. **Thomas Bond, Jr.** Died (between 1777 and 1789?)
- 79. **William West**. Died (1791, æt. 62?)
- 80. **Robert Proud**. Died July 5, 1813, æt. 86.
- 81. **Joseph Fox**, Esq. Died Dec. 9, 1779, æt. 70.
- 82. **James Dickinson**. Died
- 83. **John Rhea**. Died (1829, æt. 74?)
- 84. **Isaac Jones**, Esq., Presiding Justice C. P. Died Oct. 18, 1773, æt. 58.
- 85. **Robert Strettell Jones**. Died March 16, 1792, æt. 65.
- 86. **Samuel Caldwell**. Died 1794.
- 87. **Edward Shippen**, Esq., Lancaster, Pennsylvania. Died
- 88. **Thomas McKean**, Esq., Newcastle, Del. Died June 24, 1817, æt. 83.
- 89. **Rev. Rich. Peters**, Rector of Christ Church and St. Peter's, Philadelphia.
Died 1776, æt. 72.
- 90. **John Kearsley, Sen.** Died Jan. 11, 1772, æt. 88.
- 91. **Samuel Purviance, Jr.** Died

Elected May 18, 1768.

- 92. **Rev. Robert Harding**. Died Sept. 1, 1772, æt. 71.
- 93. **Thomas Potts**, Philadelphia Co. Died March 22, 1785.
- 94. **Alexander Wilcocks**, Esq. Died July 22, 1801, æt. 59.
- 95. **Thomas Bradford**. Died May 7, 1838, æt. 93.
- 96. **James Biddle**, Esq., Presiding Judge C. P. Died June 14, 1797, æt. 69.
- 97. **Hon. William Smith**, Esq., N. Y. Died Nov. 22, 1769, æt. 93.
- 98. **William Livingston**, Esq., N. Y. Died July 25, 1790, æt. 67.
- 99. **John Morin Scott**, Esq., N. Y. Died Sept. 14, 1784.
- 100. **Richard Stockton**, Esq., N. J. Died Feb. 28, 1781, æt. 50.
- 101. **William Peartree Smith**, Esq., N. J. Died Nov. 20, 1801, æt. 78.
- 102. **Hon. Samuel Smith**, Esq., Burlington, N. J. Died 1776.
- 103. **Joseph Reed**, Esq. Died March 5, 1785, æt. 44.
- 104. **Richard Hockley**, Esq. Died
- 105. **Rev. James Davidson**, Prof. Lang. C. Phil. Died June 28, 1809, æt. 77.

Elected August 16, 1768.

- 106. **William Rumsey**, Esq., Maryland. Died 1831?
- 107. **Henry Holiday**, Esq., Maryland. Died
- 108. **Rev. John Davis**, Philadelphia Co. Died Dec. 13, 1772, æt. 36.
- 109. **Dr. James Anderson**, Maryland. Died Dec. 8, 1820, æt. 69.
- 110. **Dr. Ed. Holyoke**, Massachusetts Bay. Died March 21, 1829, æt. 101.
- 111. **Dr. Sandiford**, Barbadoes. Died

Elected October 18, 1768.

- 112. **Dr. John A. DeNormandie**, Bristol, Pennsylvania. Died 1803.
- 113. **Joseph Kirkbride**, Esq., Bucks Co., Pennsylvania. Died
- 114. **Dr. Peter Bergius**, Prof. Nat. Hist., Stockholm. Died
- 115. **Rev. Ch. Magnus Wrangel**, Sweden. Died

116. **Christian Magee**, LL.D., Heidelberg. Died
 117. **Monsieur Buffon**, Paris. Died April 16, 1788, æt. 81.
 118. **Rev. Ferdinand Farmer**, Philadelphia. Died Aug. 17, 1786, æt. 66.

Elected December 20, 1768.

119. **Gen. Gage**, Commander-in-Chief of H. M. F. in N. A. Died April, 1787.
 120. **Sir William Johnson**, Bart. Died July 11, 1774, æt. 60.
 121. **William Logan, Jr.**, Bristol, Pennsylvania. Died 1776.
 122. **Gilbert Hicks**, Esq., Bucks Co., Pennsylvania. Died in exile after 1776. ?
 123. **Matthias Aspden**. Died Aug., 1824.
 124. **Dr. Samuel Duffield**. Died Nov. 27, 1814, æt. 82.
 125. **Rev. Chauncey Whittlesey**, New Haven. Died 1787.
 126. **Rev. Nathaniel Hooker**, Hartford. Died 1770.
 127. **Rev. Samuel West**, Dartmouth. Died April 10, 1808, æt. 69.
 128. **Col. Francis Lightfoot Lee**, Virginia. Died 1797, æt. 63.

III. Members belonging exclusively to the American Society held at Philadelphia for Promoting Useful Knowledge.

Elected September 22, 1758.

129. **Charles Thomson**. Died Aug. 16, 1824, æt. 95.

Existing Members.

130. **Isaac Paschall**. Died 1775, æt. 47.
 131. **Edmund Physick**, Esq. Died 1804.
 132. **Joshua Howell**, Esq. Died
 133. **William Hopkins**. Died

Time of Election unknown.

134. **Moses Bartram**. Died 1810 (1811 ?), æt. 78 (79 ?).
 135. **Jos. Paschall**. Died 1795, æt. 55 ?.
 136. **Owen Biddle**. Died March 10, 1799, æt. 61.
 137. **Paul Fooks**, Prof. French and Spanish, College Penn. Died 1781.
 138. **Hon. John Vining**, Esq., Dover on the Delaware. Died Nov. 13, 1770, æt. 46.
 139. **Dr. Ch. Ridgley**, Dover on the Delaware. Died Aug. 25, 1785, æt. 48.

Elected February 9, 1759.

140. **Isaac Bartram**. Died
 141. **James Pearson**. Died Aug. 20, 1813, æt. 78.

Elected March 7, 1760.

142. **Samuel Powel**. Died Sept. 29, 1793.

Elected September 19, 1766.

143. **William Bettle**. Died
 144. **Samuel Eldridge**. Died
 145. **Benjamin Davis**. Died
 146. **Nicholas Waln**. Died Sept. 29, 1813, æt. 72.

Elected October 3, 1766.

147. **Clement Biddle**, Philadelphia. Died Aug. 11, 1814, æt. 74.

Elected December 5, 1766.

148. **John Morgan**, M.D., F.R.S., Professor of the Theory and Practice of Physic in the Coll. Penn. Died Oct. 15, 1789, æt. 53.

Elected March 27, 1767.

149. **William Henry**, Lancaster Co., Pa. Died Dec. 15, 1786, æt. 58.
 150. **William Johnson**, Charleston, S. C. Died
 151. **Charles Mason**, Surveyor, London. Died Feb., 1787.
 152. **Dr. Sam. Bard**, Prof. Prac. Phys., K. C. N. Y. Died May 24, 1821, æt. 80.

Elected January 19, 1768.

153. **David Evans**. Resigned April 6, 1770.
 154. **Thomas Mifflin**. Died Jan. 21, 1800, æt. 56.

Elected February 12, 1768.

155. **George Roberts**. Died Sept. 17, 1801, æt. 64.
 156. **John Morris, Jr.**, Esq., Attorney-General. Died March 9, 1785.

Elected February 19, 1768.

157. **William Bartram**, son of John Bartram. Died July 22, 1823, æt. 84.
 158. **Dr. John Chapman**, Bucks Co., Pennsylvania. Died Jan. 27, 1780.

Elected February 26, 1768.

159. **Isaac Jamineau**, Esq., British Consul at Naples. Died
 160. **Rev. Jonathan Odell**, Burlington, N. J. Died 1818.
 161. **Richard Wells**, Burlington, N. J. Died
 162. **Dr. Hugh Mercer**, Virginia. Died Jan. 3, 1777, æt. 56.
 163. **Benjamin Rush**, Philadelphia. Died April 19, 1813, æt. 67.
 164. **Samuel Eliot**, Boston. Died 1820, æt. 81.

Elected March 4, 1768.

165. **James Alexander**. Died

Elected April 1, 1768.

166. **Samuel Robinson**. Died
 167. **Stephen Hopkins**, Esq., Gov. Rhode Island. Died July 13, 1785, æt. 77.
 168. **Joseph Harrison**, Boston. Died
 169. **Peter Harrison**, Rhode Island. Died
 170. **Dr. Charles Bensell**, Germantown. Died
 171. **Pierre Eugene du Simitiere**, Geneva. Died Philadelphia, 1788.
 172. **Hon. Andrew Oliver**, Lieut. Gov. Massachusetts Bay. Died March 3, 1774, æt. 67.
 173. **Hon. Jonathan Belcher**, Esq., Chief Justice of Nova Scotia. Died March, 1776, æt. 65.
 174. **Jeremiah Dixon**, Surveyor, London. Died 1777.

Elected April 8, 1768.

- 175. **Abe James.** Died Oct., 1790, æt. 64.
- 176. **Michael Hillegas.** Died 1804.
- 177. **George Morgan.** Died March 10, 1810, æt. 69.
- 178. **Thomas Fisher.** Died
- 179. **Lewis Nicola,** Northampton, Pennsylvania. Died Aug. 9, 1807, æt. 90.
- 180. **William White.** Died (Bishop of Penna.) July 17, 1836, æt. 88.
- 181. **Peter Miller,** Ephrata, Pennsylvania. Died
- 182. **Humphrey Marshall,** West Bradford, Chester Co., Pennsylvania. Died Nov. 5, 1801, æt. 79.
- 183. **Benjamin Jacobs,** Chester Co., Pennsylvania. Died
- 184. **James Webb,** Lancaster Co., Pennsylvania. Died
- 185. **Chr. Fred. Post,** of the Mosquito Shore. Died May 1, 1785, æt. 75.
- 186. **John Okely,** Bethlehem, Pennsylvania. Died

Elected April 15, 1768.

- 187. **Sir George Saville,** Bart., York, Eng. Died Jan. 9, 1784, æt. 58.
- 188. **Professor Famitz,** Naples. Died
- 189. **Thomas Warner,** Solicitor-General of Antigua. Died
- 190. **Sir Alex. Dick,** M.D., Bart., Edinburgh. Died
- 191. **John Martin Butt,** M.D., Kingston, Jam. Died
- 192. **Sidney George,** Esq., Maryland. Died
- 193. **Rev. Samuel Stillman,** Boston. Died March 13, 1807, æt. 70.
- 194. **Samuel Warner,** Councillor of Antigua. Died
- 195. **Paul Bedford,** Esq., Barbadoes. Died
- 196. **John Francis Oberlin,** Bethlehem, Pennsylvania. Died
- 197. **Lionel Chalmers,** M.D., Charleston, S. C. Died 1777, æt. 62.

Elected April 22, 1768.

- 198. **Ralph Izard,** Esq., Charleston, S. C. Died May 30, 1804, æt. 62.
- 199. **Rev. Elliot,** Boston. Died Sept. 13, 1778, æt. 59.
- 200. **David Jameson,** M.D., Yorktown, Pennsylvania. Died

Elected April 29, 1768.

- 201. **Stephen Paschall.** Died 1802, æt. 88.
- 202. **John Gill,** M.D., Kinsale, Ireland. Died

Elected May 18, 1768.

Rev. Bacon, of Maryland.

Elected June 3, 1768.

- 203. **Dr. John Paschall,** Derby, Pennsylvania. Died 1779, æt. 73.

Elected June 10, 1768.

- 204. **Benjamin West,** London. Died March 10, 1820, æt. 82.
- 205. **Samuel Miles,** Philadelphia. Died Dec. 29, 1805, æt. 66.

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Elected July 1, 1768.

206. Dr. John Tweedy, Newport, R. I. Died
 207. Rowland Evans, Philadelphia Co., Penna. Died Aug. 18, 1789, æt. 72.
 208. William Poole, Wilmington, Newcastle Co. Died

Elected September 23, 1768.

209. Joseph Bringham. Died

Elected October 14, 1768.

210. Dr. John Kersley, Jr. Died 1777.
 211. Dr. Gerardus Clarkson. Died Oct., 1790, æt. 53 (Sept. 19, æt. 51 ?).
 212. Dr. James A. Bayard. Died June 8, 1770.
 213. Dr. Robert Harris. Died
 214. Dr. Peter Sonmans. Died March 15, 1776, æt. 67.
 215. Dr. George Glentworth. Died.
 216. Dr. Jonathan Potts. Died Oct., 1781.
 217. James Span, M.D., Prof. Mat. Med. Univer., Dublin. Died
 218. James Dick, M.D., Charleston, S. C. Died
 219. Richard Thick, M.D., F.R.S., London. Died
 220. Williams Smibert, Boston. Died
 221. John Arbo, Bethlehem, Pennsylvania. Died Dec. 11, 1772, æt. 60.
 222. William Scull, Reading, Pennsylvania. Died
 223. Joseph Hutchins, Barbadoes. Died April 29, 1833, æt. 86.
 224. John Himili, Charleston, S. C. Died
 225. John Deas, Charleston, S. C. Died

Elected October 21, 1768.

226. Thomas Foxcroft. Died June 18, 1769, æt. 72.

Elected October 28, 1768.

227. John Benezet. Died 1780.

Elected November 4, 1768.

228. Dr. Isaac Smith, Trenton. Died Aug. 28, 1817, æt. 68.
 229. John Walker, Virginia. Died.

Elected November 11, 1768.

230. Lambert Cadwalader, Trenton. Died Sept. 13, 1823, æt. 80.

Elected November 18, 1768.

231. John Cadwalader. Died Feb. 10, 1786, æt. 45.
 232. John Murgatroyd. Died June 24, 1782, æt.
 233. James Wilson, Esq., Reading, Penna. Died Aug. 28, 1798, æt. 55.
 234. William Hewson, Anatomist, London. Died May 1, 1774, æt. 35.
 235. Edward Biddle, Esq., Attorney-at-Law, in Reading. Died Sept. 5, 1779, æt. 30.

Elected November 25, 1768.

- 236. **Jacob Duché.** Died 1798, æt. 61.
- 237. **Edward Penington.** Died Sept. 30, 1796, æt. 70.
- 238. **Capt. Valentine Gardiner,** of Lord Howe's Regulars. Died
- 239. **Dr. Mim,** Yorktown. Died

Elected December 2, 1768.

- 240. **Henry Drinker.** Died Aug. 14, 1809.
- 241. **Matthew Clarkson.** Died Oct. 5, 1800, æt. 67.
- 242. **Capt. Joseph Stiles.** -Died
- 243. **Thomas Livezey,** Esq., Philadelphia Co. Died Sept. 9, 1790, æt. 74.
- 244. **Samuel Wharton.** Died March, 1800, æt. 68.

Elected December 20, 1768.

- 245. **Benjamin Wynkoop.** Died Sept. 2, 1803, æt. 69.
- 246. **John Drinker.** Died July, 1800, æt.
- 247. **Thomas Gilpin.** Died March 3, 1778, æt.
- 248. **Thomas Clifford.** Died
- 249. **Levi Hollingsworth.** Died March, 1824, æt. 85.
- 250. **James Worral.** Died
- 251. **Isaac Wharton.** Died March 31, 1808, æt. 63.

*Members elected since the union.**Elected April 21, 1769.*

- 252. **Rev. John Witherspoon,** President of the College of New Jersey. Died Nov. 15, 1794, æt. 72.
- 253. **Rev. Myles Cooper,** Pres. of King's College, New York. Died May, 1785, æt. 50.
- 254. **Col. Landon Carter,** Virginia. Died May 1, 1785, æt. 50.
- 255. **Dr. Otto,** Bethlehem. Died April 29, 1793.
- 256. **Daniel Clark.** Died
- 257. **Dr. John Lorimer,** West Florida. Died
- 258. **Dr. Brooke,** Maryland. Died
- 259. **Dr. Ebenezer Prime,** New York. Died
- 260. **Dr. John Jones,** New York. Died June, 23, 1791, æt. 63.
- 261. **Samuel Bowen,** South Carolina. Died
- 262. **Samuel Shoemaker,** Esq., Philadelphia. Died Oct. 10, 1800, æt. 79.

Elected between April 21, 1769, and Jan. 18, 1771.

- 263. **Sir Charles a Linné,** M.D., K. P. S., etc., Upsal. Died Jan. 10, 1778, æt. 71.

Elected January 19, 1770.

- 264. **Dr. John Fothergill,** London. Died 1780, æt. 69.
- 265. **Lord Stirling (William Alexander),** New Jersey. Died Jan. 15, 1783, æt. 57.

- 266. **Dr. John David Hahn**, Prof. Chem. Uni. Utrecht. Died 1784, æt. 55.
- 267. **Edward Nairne**, London. Died
- 268. **James Ferguson**, London. Died 1776, æt. 66.
- 269. **John Morell**, Georgia. Died
- 270. **Mr. George Guald**, Surveyor of West Florida. Died
- 271. **Joel Bailey**, Chester Co., Pennsylvania. Died 1797.
- 272. **Joseph Ellicott**, Bucks Co., Pennsylvania. Died Oct. 15, 1780.
- 273. **Joseph Glipin**, Cecil Co., Maryland. Died March 30, 1790.

Elected January 18, 1771.

- 274. **Dr. Morton**, Jamaica. Died
- 275. **Dr. James Lloyd**, Boston. Died March, 1810, æt. 82.
- 276. **Richard Thomas**, Chester Co., Pennsylvania. Died Jan. 19, 1832, æt. 87.
- 277. **Henry Hill**. Died 1793.
- 278. **William Parr**, Esq. Died
- 279. **Samuel Rhoads, Jr.** Died
- 280. **Dr. Thomas Preston**. Died
- 281. **Henry Bembridge**. Died about 1820.
- 282. **John Baynton**, Esq. Died March 17, 1788, æt. 32.
- 283. **Dr. Samuel Preston Moore**. Died
- 284. **Joseph Otolenge**, Esq., Georgia. Died
- 285. **Nevil Maskelyne**, Ast. Roy. Greenwich. Died Feb. 9, 1830, æt. 79.
- 286. **Samuel Filsted**, Jamaica. Died
- 287. **Dr. Archibald Gloucester**, Antigua. Died
- 288. **Frederick Marshall**, North Carolina. Died 1802.

Elected April 17, 1772.

- 289. **Lieut. Stephen Adye**, of the Royal Artillery. Died
- 290. **Jesse Lukens**, Philadelphia. Died
- 291. **Daniel Coxe**, Trenton. Died 1827 or 1828.
- 292. **Mr. Lane**, London. Died
- 293. **Lieut. Thomas Hutchins**, 60th Regiment. Died April 28, 1789.
- 294. **Peter Dolland**, London. Died July 2, 1820, æt. 90.
- 295. **Arch. McClean**, York Co. Died
- 296. **Gerard Bancker**, New York. Died 1798, æt. 58.
- 297. **Capt. John Montresor**, New York. Died
- 298. **Col. Henry Laurens**, South Carolina. Died Dec. 8, 1792, æt. 69.
- 299. **Rev. Samuel Williams**, Mass. Bay. Died January, 1817, æt. 73.
- 300. **Dr. George Millegan**, South Carolina. Died

Elected January 15, 1773.

- 301. **Timothy Baron de Klingstedt**, St. Petersburg. Died
- 302. **M. Le Roy**, Vice-Direc. Acad. S. Paris. Died Aug. 25, 1785, æt. 68.
- 303. **Hon. Andrew Oliver**, Boston. Died Dec., 1799, æt. 68.
- 304. **Dr. Torbern Bergmann**, Pr. Math. Stockholm. Died July 8, 1784, æt. 49.
- 305. **Alexander Small**, London. Died
- 306. **Dr. James Tilton**, Dover, Delaware. Died May 14, 1822, æt. 77.

307. Dr. Nicholas Way, Wilmington, Delaware. Died
 308. Rev. William Ludlam, Leicester. Died
 309. Rev. Thomas Coombe, Philadelphia. Died Aug. 15, 1822, æt. 75.

Elected January 21, 1774.

310. Right Hon. Earl of Stanhope. Died Dec. 14, 1816, æt. 63.
 311. Right Hon. Lord Mahon. Died
 312. Dr. Andrew Duncan, Edinburgh. Died
 313. Samuel Moore, Esq., London. Died
 314. George Gauld, Esq., Pensacola. Died
 315. Bernard Romans, Esq., Pensacola. Died 1784, æt. 64.
 316. Hon. Bryan Edwards, Esq. Died 1806, æt. 63.
 317. Hon. John Ellis, Esq., Jamaica. Died 1776, æt. 65.
 318. Dr. William Wright, Jamaica. Died Sept., 1819, æt. 84.
 319. Dr. Walter Jones, Virginia. Died
 320. Dr. James McClurg, Virginia. Died July, 1823, æt. 77.
 321. Dr. Jonathan Elmer, New Jersey. Died 1817, æt. 72.
 322. Dr. William Bryant, New Jersey. Died about 1783 (?).
 323. John Jones, Esq., Maryland. Died
 324. Dr. John Perkins, Boston. Died
 325. Sharp Delany, Philadelphia. Died May, 1799, æt.
 326. James Bringham, Philadelphia. Died 1794 (1799 ?).
 327. Benjamin Morgan, Philadelphia. Died
 328. Dr. Thomas Parke, Philadelphia. Resigned.

Elected January 28, 1775.

329. Dr. Adams, Barbadoes. Died
 330. Marquis of Condorcet, Paris. Died March 28, 1794, æt.
 331. M. Daubenton, Jr., K. King's Cab., Paris. Died Dec. 31, 1799, æt. 83.
 332. M. J. Barbeau Dubourg, Paris. Died Dec., 1779.
 333. M. Le Roux, Paris. Died Feb. 9, 1795, æt. 71.
 334. M. Macquer, Paris. Died 1770 (?), æt. 52.
 335. Abbé Reynall, Paris. Died March 6, 1796, æt. 83.
 336. M. Lavoisier, Paris. Died May 8, 1794, æt. 51.
 337. Abbé Rozier, Paris. Died Sept. 29, 1793, æt. 59.
 338. Capt. Holland, London. Died
 339. Rev. Thomas Gibbons, London. Died 1785, æt. 65.
 340. Fortunatus de Warris, Esq., M.D. Died
 341. Dr. Benjamin Mosely, Jamaica. Died June 15, 1819, æt. 80.

Elected April 16, 1779.

342. Hon. M. Conrad A. Gérard, Min. Plen. from France. Died 1790.
 343. Dr. James Hutchinson. Died 1793, æt. 41.
 344. Rev. George Duffield. Died Feb. 2, 1790, æt. 58.

Elected between April 16, 1779, and January 19, 1781 ?

345. His Ex. Thomas Jefferson, Min. Plen. Died July 4, 1826, æt. 83.
 346. Rev. J. C. Kunze, New York. Died July 24, 1807, æt. 78.

- 347. **Chev. de la Luzerne**, Paris. Died Sep. 14, 1791, æt.
- 348. **M. Barbé de Marbois**, Int. of St. Domingo. Died Jan. 14, 1837, æt. 91.
- 349. **Timothy Matlack**. Died April 15, 1829, æt. 99.
- 350. **Rev. James Madison**, President of the College of William and Mary, Virginia. Died March 6, 1812, æt. 62.
- 351. **Charles Pettit**. Died Sept. 6, 1806, æt. 69.
- 352. **M. Sue**, Professor Royal of Anatomy, etc., at Paris. Died
- 353. **John Ternaut**. Died Jan., 1834.
- 354. **His Ex. General Washington**. Died Dec. 14, 1799, æt. 68.
- 355. **Gen. Anthony Wayne**, U. S. A. Died Dec., 1796, æt. 51.

Elected January 19, 1781.

- 356. **Marquis de la Fayette**, Maj. Gen. U. S. A. Died May 20, 1834, æt. 76.
- 357. **Ebenezer Hazard**, Esq., Post M. Gen. Died June 13, 1817, æt. 73.
- 358. **Hon. Thomas Bee**, Esq., South Carolina. Died
- 359. **Dr. Hugh Shiell**, Philadelphia. Died
- 360. **Isaac Gray**, Philadelphia. Died
- 361. **Chev. de Chastellux**, Field Marshal of France. Died 1788, æt. 82.
- 362. **Jared Ingersoll**, Esq. Died Oct. 31, 1822, æt. 71.

Elected January 18, 1783.

- 363. **Samuel Huntingdon**, Esq., Connecticut. Died Jan. 5, 1796, æt. 63.
- 364. **John Beale Bordley**, Esq., Maryland. Died Jan. 26, 1804, æt. 76.
- 365. **Abbé Fontana**. Died March 9, 1805, æt. 76.
- 366. **Chev. D'Armours**, Baltimore, Cons. of France for the S. Dept. Died
- 367. **Dr. Coste**. Died
- 368. **Robert Patterson**, Prof. Math. Univ. Pa. Died July 22, 1824, æt. 81.
- 369. **Rev. Robert Davidson**, Prof. Hist. Univ. Pa. Died Dec. 13, 1813.

Elected January 16, 1784.

- 370. **Count de Campomanes**, Fiscal of the Council of Castile. Died
- 371. **Rev. Samuel Magaw**. Died Dec. 1, 1812, æt. 77.
- 372. **Samuel Vaughan**, Esq. Died Dec. 4, 1802, æt. 83.
- 373. **John Vaughan**. Died Dec. 30, 1841, æt. 86.
- 374. **Rev. Jeremy Belknap**, New Hampshire. Died June 20, 1798, æt. 54.
- 375. **Maj. Ferd. J. S. de Brahm**. Died
- 376. **Arch. Gamble**, Prof. Eng. Orat., University of Pennsylvania. Died 1784.
- 377. **Rev. J. H. C. Helmuth**, Prof. Ger. Un. Pa. Died Feb. 5, 1825, æt. 79.
- 378. **James Six**, Canterbury. Died
- 379. **Marquis d'Augeville**, Paris. Died
- 380. **Count de Vergennes**. Died Feb. 13, 1787, æt. 70.
- 381. **John Dunlap**. Died Nov. 27, 1812, æt. 66.
- 382. **Peter J. Van Berckel**, Min. Plen. from the Netherlands. Died
- 383. **George Fox**. Died
- 384. **Dr. John Foulke**. Died
- 385. **Dr. Barnabas Binney**. Died July, 1787, æt. 36.
- 386. **Rev. Robert Blackwell**. Died Feb. 12, 1831, æt. 82.

387. **Jonathan Dickinson Sergeant**, Esq., Newark, N. J. Died Oct. 26, 1793, æt. 47.
 388. **George Gray**. Died _____

Gen. Washington in a letter to President Joseph Reed under date of February 15, 1780, acknowledges the receipt of notice of his election to membership in the Society. (Sparks, vol. vi, page 466.)

401. **Dr. Hugh James**, Montego Bay, Jamaica. Died
 402. **Joseph Mandrillon**, Merchant, Amsterdam. Died Jan. 7, 1799, æt.
 403. **Br. Gen. Thad. Kosciuszko**. Died Oct. 16, 1817, æt. 65.
 404. **William Herschel**, F. R. S., Bath. Died Aug. 23, 1822, æt. 83.
 405. **Dr. James McHenry**, Baltimore, Md. Died May 8, 1816, æt. 63.
 406. **James Madison**, Virginia. Died June 28, 1836, æt. 85.
 407. **Rev. Henry E. Mühlentburg**, Lancaster. Died June 24, 1817, æt. 61.
 408. **Chr. Fred. Michaëlis**, M.D., Gottenberg. Died
 409. **William Parker**, London. Died
 410. **Hon. Mann Page**, Fredericksburg, Va. Died
 411. **Thomas Paine**, Auth. of Common Sense. Died June 8, 1809, æt. 72.
 412. **Dr. Robert Perceval**, Prof. Chem. Trinity College, Dublin. Died
 413. **Rev. Richard Price**, F. R. S., London. Died March 19, 1791, æt. 68.
 414. **Rev. Joseph Priestley**, F. R. S., Birmingham. Died Feb. 6, 1804, æt. 71.
 415. **Rev. Samuel Stanhope Smith**, V. P. Coll., Princeton. Died Aug. 21, 1819, æt. 69.
 416. **Jean Baptiste Sue, Jr.**, Professor of Anatomy, Paris. Died
 417. **Col. George Wall, Jr.**, Sup. Ex. Council of Pennsylvania. Died
 418. **Benjamin Workman**, Teacher of Math. Univ. Penna. Died

Elected July 21, 1786.

419. **Hon. Robert Morris**. Died May 8, 1806, æt. 72.
 420. **Jonathan Hoge**, Mem. Sup. Ex. Council, Pennsylvania. Died
 421. **George Clymer**. Died Jan. 23, 1813, æt. 73.
 422. **William Temple Franklin**, Esq. Died May 25, 1823, æt. 63.
 423. **Samuel Vaughan, Jr.**, Jamaica. Died
 424. **Rev. John Andrews**. Died March 30, 1813, æt. 67.
 425. **Charles W. Peale**. Died 1827, æt. 86.
 426. **Robert Edge Pine**. Died Nov. 19, 1788.
 427. **Dr. Benjamin Duffield**. Died Dec. 13, 1799, æt. 46.
 428. **Dr. John Morris**. Died Sept. 8, 1793, æt. 34.

429. **William Rawle**. Died April 12, 1836, æt. 76.
 430. **Duke de Rochefoucauld**, of the Acad. Sciences, Paris. Died
 431. **Marquis de Condorcet**, Sec. of the Acad. Sciences, Paris. Died
 432. **M. Le Roy**, Member of the Academy of Sciences, Paris. Died
 433. **Abbé Soulavie**. Died March, 1813, æt. 62.
 434. **Dr. Jean Ingenhousz**, Vienna. Died Sept. 7, 1799, æt. 69.
 435. **M. Gastellier**, M.D., Montargis. Died
 436. **M. Grivel**. Died Oct. 17, 1810, æt. 75.
 437. **M. Charles**, Lecturer in Experimental Phil. and early aeronaut, Philadelphia. Died
 438. **M. Cabanis**, M.D. Died 1807, æt. 51.
 439. **M. Le Veillard**. Died
 440. **M. Thibert Garbier**, M.D. Died
 441. **M. Feutry**, Mechanician. Died
 442. **Lorenz Crell**, M.D., Helmstedt in Brunswick. Died
 443. **Count de Castillone**, Milan and Philadelphia. Died
 444. **Dr. Noel**, Paris. Died
 445. **Chev. de Granchain**, Paris. Died
 446. **Richard Kirwan**, London. Died June 22, 1812.
 447. **John Whitehurst**, London. Died 1788, æt. 73.
 448. **Benjamin Vaughan**, London. Died Dec. 8, 1835, æt. 85.
 449. **Dr. James Beattie**, Pr. Mor. Ph. U., Aberdeen. Died Aug., 1803, æt. 68.
 450. **Dr. Thomas Percival**, Manchester. Died Aug. 30, 1804, æt. 64.
 451. **Dr. Thomas Henry**, Manchester. Died June 18, 1816, æt. 82.
 452. **Rev. Charles H. Wharton**, Newcastle. Died July, 1833.

Elected January 19, 1787.

453. **William Bingham**, Philadelphia. Died Feb. 7, 1804, æt. 52.
 454. **Benjamin Chew, Jr.**, Philadelphia. Died April 30, 1844, æt. 86.
 455. **Francis Johnston**, Philadelphia, Rec. Gen. Land Off. Died Feb. 22, 1855, æt. 66.
 456. **Joseph James**, Philadelphia. Died
 457. **Robert Milligan**, Philadelphia. Died Nov. 25, 1806.
 458. **William Barton**, Philadelphia. Died
 459. **Dr. Thomas Ruston**, Philadelphia. Died 1804.
 460. **Major Isaac Craig**, Pittsburgh. Died
 461. **Simeon De Witt**, New York. Died Dec. 3, 1834, æt. 78.
 462. **His Ex. James Bowdoin**, Gov. Mass. Died Nov. 6, 1790, æt. 63.
 463. **Lewis W. Otto**, French Chargé d'Affaires. Died Nov. 9, 1817, æt. 63.
 464. **Hon. John Jay**, Sec. For. Affairs, N. Y. Died May 17, 1829, æt. 83.
 465. **M. Cadet de Vaux**, Paris. Died
 466. **M. Cadet**, Paris. Died
 467. **Hon. John Lowell**, Judge of App., Boston. Died May 6, 1802, æt. 58.
 468. **Sir Edward Newenham**, Baronet, Ireland. Died
 469. **His Grace the Duke of Richmond**. Died March 5, 1785, æt. 55.
 470. **Dr. John Coakley Letsom**, London. Died March 1, 1815, æt. 72.
 471. **Robert Barclay**, London. Died
 472. **Dr. William Thornton**, London. Died
 473. **Dr. George Spence**, Jamaica. Died

Elected July 20, 1787.

- 474. **Sir Jos. Banks**, Pres. R. Soc., London. Died June 19, 1820, æt. 77.
- 475. **John Hunter**, Surgeon, London. Died Oct. 16, 1793, æt. 64.
- 476. **George Vaux**, Surgeon, London. Died May 23, 1820, æt. 73.
- 477. **Wm. Baker**, Bayfordbury, Eng. Died Jan. 28, 1824, æt. 80.
- 478. **Dr. John R. B. Rogers**, Philadelphia. Died
- 479. **Dr. Caspar Wistar**, Philadelphia. Died Jan. 22, 1818, æt. 56.
- 480. **Dr. Enoch Edwards**, Philadelphia Co. Died April, 1802, æt. 50.
- 481. **Col. John Bayard**, Philadelphia. Died Jan. 7, 1807, æt. 69.
- 482. **Dr. Thomas White**, Manchester, England. Died
- 483. **Rev. Thomas Barnes**, Manchester, England. Died
- 484. **William W. Smith**, M.D., Philadelphia. Died Feb., 1793.
- 485. **Jonathan Williams, Jr.** Died May 20, 1815, æt. 64.

Elected January 16, 1789.

- 486. **David Redick**, Member of the Sup. Ex. Coun. Penna. Died
- 487. **Don Diego de Gardoqui**, Envoy from Spain. Died
- 488. **Rev. Nicholas Collin**, Rect. Sw. Ch., Phila. Died Oct. 7, 1831.
- 489. **David Brearly**, Chief Justice N. J. Died Aug., 1790, æt. 45.
- 490. **M. Steinsky**, Prof. Natural Philosophy at Prague. Died
- 491. **M. St. Jean Crevecoeur**, Consul of France at N. Y. Died 1813. at Sarcelles, France.
- 492. **John Cox**, Bloomsbury, N. J. Died 1847, æt. 93.
- 493. **Dr. Blagden**, Sec. R. S., London. Died March 26, 1820, æt. 72.
- 494. **Petrus Camper**, Friesland. Died April 7, 1789, æt. 67.
- 495. **Baron de Heynitz**, Prof. Acad. Arts, Berlin. Died
- 496. **Benjamin Smith Barton**, M.D. Died Dec. 19, 1815, æt. 49.
- 497. **M. Arthaud**, Pres. Soc. of the Philadelphes, Cape François. Died
- 498. **Mederic L. El Moreau de St. Mery**, Cape François. Died Jan. 28, 1819, æt. 69.
- 499. **Jos. Mig. De Flores**, Pres. R. S. H., Madrid. Died
- 500. **Charles Stuart**, M.D., F.R.S., Edinburgh. Died
- 501. **William Paterson**, Esq., late Att. Gen. N. J. Died Sept. 19, 1806, æt. 63.
- 502. **Walter Minto**, Prof. Math. at Princeton. Died Oct. 21, 1796, æt.
- 503. **C. C. Pinckney**, S. C. Died Aug. 16, 1825, æt. 79.
- 504. **Rev. Ashbel Green**, late of Princeton Coll. Died May 19, 1848.
- 505. **William Findley**, late Mem. G. Assem. Penna. Died April, 1821.
- 506. **J. P. Brissot de Warville**. Died Oct., 1793, æt. 38.
- 507. **Rev. Burgiss Allison**, Bordentown, N. J. Died Feb. 20, 1827, æt. 74.
- 508. **Ben. Rittenhouse**, Montgomery Co., Penna. Died
- 509. **Thomas Pole**, M.D. Died Sept. 28, 1829, æt.

Elected April 17, 1789.

- 510. **Princess Cath. Romanowna d'Aschkaw**. Died Jan. 4, 1810, æt. 65.
- 511. **John Stevens, Jr.**, New Jersey. Died 1838, æt. 89.
- 512. **Joshua Humphreys, Jr.**, Philadelphia. Died Jan. 12, 1838, æt. 86.
- 513. **James Rumsey**, late of Virginia. Died Dec. 3, 1792, æt. 48 or 49 (?).
- 514. **George Monro**, M.D., Newcastle. Died

515. **Winthrop Sargent**, Esq., in the New Government, Westward. Died June 3, 1820, æt. 67.
 516. **John Bleakley**, Philadelphia. Died 1802.
 517. **George Buchanan**, M.D., Baltimore. Died
 518. **Samuel Beach**, Charleston, S. C. Died
 519. **Don Francis de Gardoqui**, Castile and Rome. Died

Elected July 17, 1789.

520. **Peter Le Gaux**, Spring Mill, Pa. Died

Elected January 15, 1790.

521. **George Turner**, Judge of the Western Territory. Died March 16, 1843, æt. 93.
 522. **Caleb Whitefoord**, Sec. British Commission for Peace. Died 1810.
 523. **Baron de Hupsch**, Cologne. Died Jan. 1, 1805, æt. 86.
 524. **Dr. John Walker**, Prof. Natural History at Edinburgh. Died
 525. **Dr. And. Sparman**, Prof. N. H., Stockholm. Died July 20, 1820, æt. 73.

Elected January 21, 1791.

526. **Alex. Hamilton**, Sec. Treas. U. S. Died July 12, 1804, æt. 47.
 527. **Edmund Randolph**, Att. Gen. U. S. Died Sept. 13, 1813, æt. 59.
 528. **Alexander Addison**, Washington Co., Penna. Died Nov. 24, 1807, æt. 48.
 529. **James Ross**, Washington Co., Penna. Died Nov. 27, 1847, æt. 86.
 530. **Dr. Absalom Baird**, Washington Co., Penna. Died
 531. **John Smilie**, Fayette Co., Penna. Died
 532. **Albert Gallatin**, Fayette Co., Penna. Died August 13, 1849, æt. 90.
 533. **John Hoge**, Fayette Co. Died
 534. **Col. Alexander Anderson**, Philadelphia. Died
 535. **Capt. William Ferguson**, of the Artillery in the W. Country. Died
 536. **Benjamin Gloxin**, M.D., Strasburg. Died
 537. **S. L. Mitchell**, M.D., Long Island. Died Sept. 7, 1831, æt. 66.
 538. **Robert Goldsborough**, Talbot Co., Maryland. Died
 539. **James Anderson**, M.D., Madras, East Indies. Died

Elected April 15, 1791.

540. **C. P. Thunberg**, Prof. Nat. Hist., Upsal. Died Aug. 8, 1828.
 541. **N. L. Burmann**, M.D., Prof. Bot., Amsterdam. Died 1793, æt. 59.
 542. **J. G. Grosche**, M.D., Prof. Nat. Hist., Mittau, Kurland. Died
 543. **Th. Pennant**, Downing, England. Died Dec. 16, 1798, æt. 72.
 544. **Henry Knox**, Sec. War U. S. Died Oct. 29, 1806, æt. 55.

Elected July 15, 1791.

545. **John Lusac**, Professor of Greek, Leyden University. Died
 546. **John Nicholson**, Comp. Gen. Penna. Died Dec. 5, 1800, æt. 40.
 547. **Andrew Ross**, M.D., Philadelphia. Died 1823.
 548. **Benjamin Waterhouse**, M.D., Prof. Med., Cambridge, Mass. Died Oct. 2, 1846, æt. 92.

549. **John Penington**, M.D. Died Sept., 1793, æt. 25.
 550. **John Beckley**, Clerk H. R., Penna. Died April 8, 1807, æt. 50.
 551. **P. S. DuPonceau**, Coun.-at-Law, Philadelphia. Died April 1, 1844, æt. 84.

Elected October 21, 1791.

552. **Andrew Murray**, M.D., Prof. Bot., Göttingen University. Died
 553. **P. S. Pallas**, M.D., Prof. N. H., St. Petersburg. Died 1812, æt. 71.
 554. **Dugald Stewart**, Prof. Mor. Phil., Edinburgh. Died June 11, 1828, æt. 78.
 555. **Alex. J. Dallas**, Sec. Comm. Penna. Died Jan. 16, 1817, æt. 57.

Elected January 20, 1792.

556. **Count Paul Andreani**, Milan. Died
 557. **Rodolph Vall-Travers**, Esq., F. R. S., Hamburg. Died
 558. **Anthony Fothergill**, M.D., Bath, England. Died
 559. **Ant. R. C. Mathurin de la Forest**, Vice-Con. Gen. to U. S. Died
 560. **Joseph Ceracchi**, Rome. Died Jan. 30, 1802, æt. 62.
 561. **Palisot de Beauvois**, Cape François. Died Feb., 1820.
 562. **John Rouelle**, M.D., Virginia. Died
 563. **Richard P. Barton**, Mount Airy, Va. Died
 564. **Dr. David Jackson**, Philadelphia. Died
 565. **Dr. William Smith**, Philadelphia. Died
 566. **Nicholas B. Waters**, M.D., Philadelphia. Died 1796, æt. 32.

Elected July 20, 1792.

567. **Erasmus Darwin**, M.D., Derby, Eng. Died April 18, 1802, æt. 71.
 568. **Dr. William Currie**, Philadelphia. Died 1829, æt. 74.
 569. **Uno Von Troll**, Archbishop of Sweden. Died
 570. **John Trumbull**, Conn., Painter. Died Nov. 10, 1843, æt. 88.

Elected January 18, 1793.

571. **M. Coupigny**, Cape François. Died
 572. **Louis Valentin**, M.D., Cape François. Died
 573. **John Adams**, Vice-President U. S. Died July 4, 1826, æt. 90.
 574. **Dr. David Nassy**, Philadelphia. Died
 575. **Dr. George Logan**, Philadelphia Co. Died April 9, 1821, æt. 66.
 576. **John W. Kittera**, Lancaster, Penna. Died June 8, 1801, æt. 48.

Elected April 19, 1793.

577. **William Waring**, Philadelphia. Died
 578. **Thomas Lee Shippen**, Philadelphia. Died Feb., 1798.
 579. **John Reinhold Forster**. Died Dec. 9, 1798, æt. 69.

Elected April 18, 1794.

580. **Thomas Mann Randolph**, Monticello, Va. Died June 20, 1828, æt. 60.
 581. **James Anderson**, Cotfield, Scotland. Died
 582. **Earl of Buchan**, Scotland. Died April 19, 1829, æt. 87.

583. **Dr. James Greenway**, Dinwiddie Co., Va. Died
 584. **Edward Stevens**, M.D., Edin., St. Croix. Died Sept. 26, 1834.
 585. **John Nancarrow**, Philadelphia. Died
 586. **Eberh. A. W. Zimmerman**, Prof. at Caroline C. Brunswick. Died

Elected January 16, 1795.

587. **Earl of Dundonald**, Culross, Scotland. Died
 588. **Samuel Wheeler**, Philadelphia. Died
 589. **Tim. Pickering**, Secretary of War, U. S. Died Jan. 29, 1829, æt. 84.
 590. **Robert Leslie**, Watchmaker, Philadelphia, now London. Died Dec. 25, 1804, æt. 39.
 591. **Gustaf Von Carleson**, Sweden. Died
 592. **Rev. Val. Melsheimer**, Hanover, Pa. Died

Elected January 15, 1796.

593. **Dr. C. F. A. Grassl**, late of Bordeaux, now of Philadelphia. Died
 594. **Dr. Deveze**, Phys. of the late Hospital on Bush Hill. Died
 595. **Dr. Nathaniel B. Bedford**, Pittsburgh. Died
 596. **Isaac Briggs**, Montgomery Co., Md. Died
 597. **F. A. F. de la Rochefoucauld Liancourt**. Died March 28, 1827.
 598. **Dr. Hugh Hodge**, Philadelphia. Died July, 1798, æt. 43.
 599. **Jacques Marie le Fessier de Grandpre**. Died
 600. **J. F. Miffin**, Philadelphia. Died April 13, 1813, æt. 53.
 601. **Tenche Coxe**, Philadelphia. Died July 16, 1824, æt. 68.
 602. **Rich. Peters Smith**, Philadelphia. Died 1798.
 603. **Mr. F. W. Le Comte**, Paris. Died
 604. **James Ed. Smith**, M.D., Pres. of the Linnæan Soc. Died
 605. **P. A. Adet**, Plen. from French Republic to U. S. Died March, 1832, æt. 71.
 606. **William Dandridge Peck**, Esq., Kittery, N. H. Died Oct. 3, 1822, æt. 59.
 607. **James Woodhouse**, M.D., Prof. Chem. U. Pa. Died June 4, 1809, æt. 38.

Elected April 15, 1796.

608. **Chev. Cyp. Rib. Freiré**, Minister of Portugal to U. S. Died 1824.
 609. **Alexander Lérébours**, late of Paris, now of Philadelphia. Died
 610. **A. J. Larocque**. Died since 1836.
 611. **M. Talleyrand Perigord**. Died May 17, 1838, æt. 83.
 612. **Rev. James Abercrombie**, Phila. Died June 26, 1841, æt. 83.

Elected July 15, 1796.

613. **Dr. Isaac Cathrall**. Died Feb. 22, 1819, æt. 56.
 614. **L. Et. Duhail**, M.D., Consul for Maryland. Died
 615. **Don Jos. de Jandennes**, Int. Gen. of Majorca. Died
 616. **Joanne Baptista Cunat**, Prof. at Valencia. Died
 617. **Don Luis de Urbina**, Capt. Gen. of Valencia, etc. Died

Elected October 21, 1796.

618. **Dr. Charles Caldwell**. Died July 9, 1853, æt. 90.

Elected January 20, 1797.

- 619. **Thomas C. James**, Philadelphia. Died July 5, 1835, æt. 69.
- 620. **Adam Seybert**, M.D., Philadelphia. Died May 2, 1825, æt. 52.
- 621. **John Newnan**, M.D., Salisbury, N. C. Died
- 622. **And. Eve. Van Braam Houckgeest**, now of Bristol, Pa. Died
- 623. **Theo. C. Mozard**, Consul of the French Republic at Boston. Died
- 624. **Samuel H. Smith**, Printer, Philadelphia. Died Nov. 1, 1845, æt. 74.
- 625. **M. Volney**, Member of the French Institute. Died April 24, 1820, æt. 63.

Elected April 21, 1797.

- 626. **John Heckewelder**, Bethlehem, Pa. Died Jan. 31, 1823, æt. 80.
- 627. **John Stewart**, Green Brier Co., Virginia. Died Aug. 23, 1823.
- 628. **Rev. Samuel Blair**, Philadelphia. Died Sept. 24, 1818, æt. 77.
- 629. **Thos. Pinckney**, S. C., late Min. to London. Died Nov. 2, 1828, æt. 77.

Elected July 21, 1797.

- 630. **John Guillemard**, St. John's Coll., Oxford, England. Died 1845.
- 631. **William Bache**, M.D., Philadelphia. Died Nov. 20, 1820.
- 632. **Alexander Martin**, N. C., Senator of the U. S. Died Nov., 1807.
- 633. **William Hamilton**, of the Woodlands, near Philadelphia. Died June 5, 1813, æt. 68.

Elected January 19, 1798.

- 634. **Gen. James Wilkinson**, Brig. Gen. Com. in Chief, U. S. A. Died Dec. 23, 1825, æt. 68.
- 635. **Major Francisco de Zach**. Died

Elected April 20, 1798.

- 636. **William Patterson**, M.D., Londonderry, Ireland. Died
- 637. **J. B. Scandella**, M.D., Venice, now in the U. S. Died
- 638. **Julien U. Niemcewicz**, Poland, now in U. S. Died in 1841, æt. 84.
- 639. **John F. Blumenbach**, M.D. Died Jan. 22, 1840, æt. 88.

Elected July 19, 1799.

- 640. **William Boys**, Philadelphia. Died
- 641. **John R. Coxe**, M.D., Philadelphia. Resigned Sept. 21, 1838.
- 642. **Thos. Peters Smith**, Philadelphia. Died
- 643. **Joseph Clay**, Philadelphia. Died Aug. 27, 1811, æt. 47.
- 644. **Samuel Elam**, Newport, R. I. Died
- 645. **Benjamin H. Latrobe**, Engineer and Arch. Died Sept., 1820, æt.
- 646. **William Maclure**, Philadelphia. Died March 22, 1840, æt. 77.

Elected January 17, 1800.

- 647. **Robert Liston**, Esq., Envoy Ex. and M. Plen. to U. S. Died July 15, 1836, æt. 93.
- 648. **John R. Smith**, Philadelphia. Died
- 649. **Justus Erico Bollmann**, M.D., Philadelphia. Died Dec. 9, 1821.
- 650. **William Dunbar**, Mississippi Territory. Died Nov. 15, 1819.

Elected April 18, 1800.

651. **Samuel Brown**, M.D., Kentucky. Died Jan. 12, 1830, æt. 60.
 652. **Samuel Miller**, New York. Died Jan. 7, 1850, æt. 80.
 653. **Dupont de Nemours**, late of France. Died Aug. 6, 1817, æt. 78.

Elected January 16, 1801.

654. **Samuel Falberg**, M.D., Govt. Phys. at St. Bartholomew's. Died
 655. **Gustav Paykull**, Sweden. Died
 656. **Alexander Ramirez**, First Sec. of the Junta of Guatemala. Died
 657. **Dr. Francis Blanchet**, Quebec. Died
 658. **Robert R. Livingston**, Chan., New York. Died Feb. 26, 1813, æt. 66.
 659. **William Jones**, Math. Inst. Maker, London. Died

Elected April 17, 1801.

660. **Thos. Tickell Hewson**, Philadelphia. Resigned Jan. 4, 1839.
 661. **Joseph Joaquin de Ferrer**, Cadiz. Died
 662. **Fran. Peyrolon**, Sec. R. S. des. Amig. del Pais, Valencia. Died

Elected January 15, 1802.

663. **Thomas Cooper**, Northumberland. Died May 11, 1839.
 664. **Jarvis Roebuck**, M.D., St. Croix. Died
 665. **William Barnwell**, M.D., Philadelphia. Died
 666. **William Roxburgh**, M.D., Calcutta. Died April 10, 1815, æt. 57.
 667. **Chev. C. Martinez de Yrujo**, Minister from Spain. Died

Elected July 16, 1802.

668. **Peter Bleeker Olsen**, Danish Min. and Consul General. Died
 669. **Letombe**, late Cons. Gen. from the French Republic. Died
 670. **William Stephen Jacobs**, M.D., Philadelphia. Died 1844.
 671. **Philip Rose Roume**, Mem. French Nat. Inst. Died
 672. **James Mease**, M.D., Philadelphia. Died May 14, 1846, æt. 75.
 673. **Philip Syng Physick**, M.D., Philadelphia. Died Dec. 15, 1837, æt. 69.
 674. **John Church**, M.D., Philadelphia. Died
 675. **Chev. Valentin de Feronda**, Consul General, France. Died
 676. **John Garnett**, New Brunswick, N. J. Died May 11, 1820, æt. 69.

Elected January 21, 1803.

677. **Robert Hare, Jr.**, Philadelphia. Died May 15, 1858, æt. 78.
 678. **Benjamin Thomson**, Count Rumford, Great Britain. Died Aug. 21, 1814, æt. 61.

Elected April 15, 1803.

679. **Benjamin Dearborn**, Boston. Died Feb. 22, 1838, æt. 83.
 680. **Jean B. Jos. Delambre**, Sec. Inst. France. Died Aug. 19, 1822.
 681. **Dan. Melanderhjelm**, Prof. of Ast. in Sweden. Died Jan., 1810, æt. 84.
 682. **Eric Prosperin**, Professor of Astronomy, at Upsal. Died
 683. **Francis Nichols**, Philadelphia. Died July 7, 1839, æt. 81.

Elected October 21, 1803.

684. **David Ramsay**, M.D., Charleston, S. C. Died May 8, 1815, æt. 65.
 685. **Capt. Meriwether Lewis**, Virginia. Died Oct. 11, 1809, æt. 35.
 686. **Robert Gilmor, Jr.**, Baltimore. Died Nov. 30, 1848, æt. 75.

Elected January 20, 1804.

687. **David Humphreys**, U. S. Min. at Lisbon. Died Feb. 21, 1818, æt. 65.
 688. **Joshua Gilpin**, Philadelphia. Died Aug. 22, 1841, æt. 75.

Elected April 20, 1804.

689. **Sam. Webber**, Har. U., Cambridge, Mass. Died July 17, 1810, æt. 51.
 690. **Manuel Godoy**, Prince of Peace. Died Oct. 7, 1851, æt. 86.
 691. **Pedro Cevallos**, Prime Minister of State, etc., Spain. Died
 692. **Anto. Jos. de Cavanillas**, R. Bot. Gar., Madrid. Died
 693. **Edward Jenner**, M.D., London. Died Jan. 25, 1823, æt. 74.

Elected July 20, 1804.

694. **William Short**, Virginia. Died Dec. 5, 1849, æt. 91.
 695. **Baron A. Von Humboldt**, Prussia. Died May 7, 1859, æt. 89.
 696. **Rev. Jos. Willard**, Pres. Harvard Coll. Died Sept. 25, 1804, æt. 64.
 697. **Zaccheus Collins**, Philadelphia. Died June 12, 1831, æt. 67.

Elected January 18, 1805.

698. **John Maclean**, Prof. Nat. Phil. in the Coll. N. J. Died Feb. 17, 1814.
 699. **Edward Miller**, M.D., New York. Died March 17, 1812, æt. 51.
 700. **Rev. John Prince**, Salem. Died June 7, 1836, æt. 84.
 701. **Capt. William Jones**, Philadelphia. Died 1831.
 702. **Charles Smith**, Lancaster, Penna. Died March 5, 1836, æt. 72.
 703. **William Hawes**, M.D., London. Died
 704. **Samuel Moore**, M.D., Philadelphia. Died July 17, 1861, æt. 88.
 705. **F. A. Vanderkemp**, Oneida Co., New York. Died Sept. 7, 1829, æt. 77.
 706. **Ben. Silliman**, New Haven. Died Nov. 25, 1864, æt. 81.

Elected April 19, 1805.

707. **William Tilghman**. Died April 30, 1827, æt. 70.

Elected July 19, 1805.

708. **Bushrod Washington**. Died Nov. 26, 1829, æt. 70.

Elected January 17, 1806.

709. **M. Destutt Tracy**, Assoc. M. of the French Inst. Died March 9, 1836.
 710. **Olof Swartz**, Prof. Bergian Inst., Sweden. Died Sept. 18, 1817, æt. 57.
 711. **Martinus Van Marum**, M.D. Haarlem. Died 1838, æt. 87.
 712. **Joseph Cloud**, Philadelphia. Died 1845, æt. 75.
 713. **Rev. Samuel B. Wylie**, Philadelphia. Died Oct. 13, 1852, æt. 80.

Elected April 18, 1806.

714. **Joseph Sansom**, Philadelphia. Died Oct. 2, 1826, æt. 60.
 715. **Rev. William Dubourg**, Baltimore. Died 1833, æt. 67.

Elected October 17, 1806.

716. **Samuel F. Conover**, M.D., Philadelphia. Died
 717. **Fr. de Borja Garcas Stockler**, Lisbon. Died March 6, 1829, æt.
 718. **Adr. Giles Camper**, Anatomist, Franeckes, Friesland. Died

Elected January 16, 1807.

719. **Mahlon Dickerson**, Philadelphia. Died Oct. 5, 1853, æt. 84.
 720. **Irene Dupont**, Wilmington, Del. Died Oct. 31, 1834.

Elected April 17, 1807.

721. **Nathaniel Chapman**, M.D., Philadelphia. Died July 1, 1853, æt. 74.
 722. **John McDowell**, Provost of the University of Pennsylvania. Died
 723. **Fer. Rud. Hassler**, Math. Prof., West Point. Died Nov., 1843, æt. 73.
 724. **George Izard**, Pennsylvania. Died Nov. 22, 1828.
 725. **John Eric Forstroem**, of St. Bartholomew's. Died
 726. **James Gibson**, Philadelphia. Died July 8, 1856, æt. 87.

Elected October 16, 1807.

727. **Arch. Bruce**, M.D., Prof. Mineral N. Y. University. Died Feb. 22, 1818,
 æt. 41.
 728. **Ch. Phil. de Lasteyrie**, Paris. Died Oct., 1849, æt. 88.

Elected January 16, 1808.

729. **Ed. Penington**, Philadelphia. Died March 16, 1834, æt. 68.

Elected July 15, 1808.

730. **Horace Binney**, Philadelphia. Died Aug. 12, 1875, æt. 95.
 731. **Rev. William Staughton**, Philadelphia. Died Dec. 12, 1829, æt. 59.

Elected January 20, 1809.

732. **Robert Fulton**, New York. Died February 24, 1815, æt. 50.
 733. **Ross Cuthbert**, Lower Canada. Died about 1861.
 734. **Joel Barlow**, of the District of Columbia. Died Dec. 26, 1812, æt. 54.

Elected April 21, 1809.

735. **Silvain Godon**, Philadelphia. Died Oct. 27, 1840, æt. 66.
 736. **George W. Featherstonhaugh**, New York. Died Sept. 18, 1866, æt. 79.
 737. **David B. Warden**, New York. Died Oct. 9, 1845.
 738. **Robert M. Patterson**, Philadelphia. Died Sept. 5, 1854, æt. 68.
 739. **Thomas Moore**, Maryland. Died
 740. **James Winthrop**, Cambridge, Mass. Died Sept. 26, 1821.

741. **Nathaniel Bowditch**, Salem, Mass. Died March 16, 1838, æt. 63.
 742. **F. Andre Michaux**, Paris. Died Oct. 23, 1855, æt. 85.

Elected July 20, 1810.

743. **George Gibbs**, Boston, late of R. I. Died Aug. 5, 1833, æt. 57.
 744. **William Johnson**, Charleston, S. C., Judge S. Ct. U. S. Died Aug. 4, 1834, æt. 63.
 745. **Humphry Davy**, London. Died May 29, 1829, æt. 51.
 746. **David Hosack**, M.D., New York. Died Dec. 22, 1835, æt. 66.
 747. **John Haighton**, M.D., F.R.S., London. Died March 23, 1823.
 748. **J. H. Brinton**, Philadelphia. Died May 7, 1827, æt. 55.

Elected January 18, 1811.

749. **John Mason Good**, F.R.S., London. Died Jan. 2, 1827, æt. 62.
 750. **Rev. William Bentley**, Salem, Mass. Died Dec. 29, 1819, æt. 61.
 751. **A. Vauquelin**, Paris. Died 1829.
 752. **John Davis**, Secretary of the American Academy, Boston. Died Jan. 14, 1845.
 753. **Charles J. Wister**, Philadelphia. Died July 23, 1865, æt. 84.

Elected January 17, 1812.

754. **Jos. Correa de Serra**, Sec. R. S., Lisbon. Died September, 1823.
 755. **Robert Walsh, Jr.**, Philadelphia. Died Feb. 7, 1859, æt. 76.
 756. **Benjamin Allen**, Philadelphia. Died July 20, 1836, æt. 64.

Elected July 17, 1812.

757. **Robert Adrain**, New Brunswick. Died Aug. 10, 1843, æt. 68.

Elected April 16, 1813.

758. **And. J. Betzius**, Prof. Nat. Hist., etc., in U. Lund., Sweden. Died 1821, æt. 79.
 759. **Alexander Wilson**, Philadelphia, Ornithologist. Died Aug. 28, 1813, æt. 47.
 760. **George Pollok**, Philadelphia. Died April, 1839.
 761. **Constant Dumeril**, Paris. Died Aug., 1860, æt. 86.
 762. **Benjamin R. Morgan**, Philadelphia. Died Nov. 19, 1840, æt. 75.
 763. **John Sergeant**, Philadelphia. Died Nov. 23, 1852, æt. 73.
 764. **Nicholas Biddle**, Philadelphia. Died Feb. 27, 1844, æt. 59.

Elected October 16, 1813.

765. **W. P. C. Barton**, M.D., Philadelphia. Died Feb. 28, 1856, æt. 69.
 766. **William Meredith**, Esq., Philadelphia. Died Sept. 26, 1844, æt. 73.
 767. **Charles Chauncey**, Esq., Philadelphia. Died Aug. 30, 1849, æt. 73.
 768. **Reuben Haines**, Philadelphia. Died Oct. 19, 1831, æt. 45.
 769. **William Hembel, Jr.**, Philadelphia. Died June 12, 1851, æt. 88.

Elected January 21, 1814.

770. **John E. Hall**, Baltimore. Died June 11, 1829, æt. 45.
 771. **James Cutbush**, Philadelphia. Died Dec. 15, 1823.
 772. **Dr. N. S. Allison**, Burlington. Died
 773. **Rev. Frederick Beasley**, Prov. U. Penna. Died Nov. 1, 1845, æt. 78.

Elected April 15, 1814.

774. **Rev. James P. Wilson**, Philadelphia. Resigned Jan. 4, 1828.
 775. **Gen. Joseph G. Swift**, Commandant Milit. Acad. U. S. A. Died July 23, 1865, æt. 82.
 776. **Thomas Gilpin**, Philadelphia. Died March 3, 1853, æt. 77.

Elected July 15, 1814.

777. **DeWitt Clinton**, Pres. N. Y. Phil. Soc. Died Feb. 11, 1828, æt. 59.
 778. **John Gummere**, Burlington, N. J. Died May 31, 1845, æt. 62.

Elected October 21, 1814.

779. **John G. Biddle**, Philadelphia. Died
 780. **John Syng Dorsey**, M.D. Died Nov. 12, 1818, æt. 35.

Elected April 21, 1815.

781. **Samuel Calhoun**, M.D. Died April 7, 1841, æt. 54.
 782. **John M. Scott**, Philadelphia. Resigned Sept. 15, 1848.
 783. **Joseph Hartshorne**, M.D., Philadelphia. Died Aug. 20, 1850, æt. 71.
 784. **Joseph Parrish**, M.D., Philadelphia. Died March 18, 1840, æt. 60.
 785. **Charles J. Ingersoll**, Philadelphia. Died May 14, 1862, æt. 79.
 786. **Rev. James Gray**. Died Sept. 20, 1824, æt. 55.

Elected July 21, 1815.

787. **Joseph Hopkinson**, Philadelphia. Died Jan. 15, 1842, æt. 71.
 788. **Charles W. Hare**, Philadelphia. Died April 15, 1827, æt. 49.
 789. **Joseph P. Norris**, Philadelphia. Died June 22, 1841, æt. 78.

Elected January 19, 1816.

790. **Gerhard Troost**, M.D., Maryland. Died Aug. 14, 1850.
 791. **Joseph Reed**, Philadelphia. Died March 4, 1846, æt. 73.

Elected October 18, 1816.

792. **Rev. Abiel Holmes**, Cambridge, Mass. Died June 4, 1857, æt. 73.
 793. **Isaiah Thomas**, Pres. Antiq. Soc., Worcester, Mass. Died April 4, 1831, æt. 82.
 794. **Carlo Botta**, Historian. Died Aug. 10, 1837.
 795. **Jared Mansfield**, Prof. N. Ph., West Point, N. Y. Died Feb. 3, 1830, æt. 71.

Elected January 17, 1817.

796. **William Meade**, M.D. Resigned Feb. 20, 1824.
 797. **Ch. Alex. Lesueur**, Paris. Died Dec. 12, 1846, æt. 68.
 798. **J. C. Delametrie**, Paris. Died
 799. **Joseph P. F. Deleuze**. Died 1835, æt. 82.
 800. **John C. Otto**, M.D., Philadelphia. Died June 26, 1844, æt. 70.
 801. **Richard Rush**, Philadelphia. Died July 30, 1859, æt. 79.

Elected April 18, 1817.

802. **Ed. Troughton**, F.R.S., London. Died June 12, 1835.

Elected July 18, 1817.

803. **Johann Peter Frank**, M.D., Counsellor of State, etc., Vienna. Died 1821, æt. 76.
 804. **Joseph Baron de Sonnenfels**, Counsellor of State, etc., Vienna. Died 1817, æt. 84.
 805. **Jos. Von Hammer**, Vienna. Died
 806. **William Gaston**, Esq., North Carolina. Died Jan. 23, 1844.
 807. **Charles Fenton Mercer**, Virginia. Died May 4, 1858, æt. 80.

Elected October 17, 1817.

808. **Rev. Joh. Severin Vater**, Königsberg. Died March 17, 1826, æt. 55.
 809. **Eugenius Nulty**, of the Univ. of Penna., Philadelphia. Died July, 1871, æt. 83.
 810. **Thomas Say**, Philadelphia. Died Oct. 10, 1834, æt. 46.
 811. **George Ord**, Naturalist, Philadelphia. Died Feb. 24, 1866, æt. 85.
 812. **Thomas Nuttall**, Botanist, Philadelphia. Died Sept. 10, 1859, æt. 70.
 813. **Rev. Lewis Schweinitz**, North Carolina. Died Feb. 8, 1834.
 814. **Rev. Henry Steinhauer**, Bethlehem, Penna. Died Dec. 29, 1885, æt. 81.

Elected January 16, 1818.

815. **Von Friedrich Adelung**, St. Petersburg. Died 1843, æt. 75.

Elected April 17, 1818.

816. **John Quincy Adams**, Sec. of State of the U. S. Died Feb. 23, 1848, æt. 81.
 817. **M. Noel de la Morinière**, France. Died 1822.
 818. **Josiah Meigs**, Commiss. of the Land Office U. S. Died Sept. 4, 1822.
 819. **James G. Thomson**, Prof. Lang. Univ. Penna. Died June 18, 1847, æt. 70.
 820. **Parker Cleveland**, Prof. Ch., etc., Bowdoin College. Died Oct. 15, 1858, æt. 78.
 821. **John C. Warren**, M.D., Prof., Cambridge, Mass. Died May 4, 1856, æt. 78.
 822. **James Jackson**, M.D., Prof., Cambridge, Mass. Died Aug., 1867, æt. 90.
 823. **Nicholas Fuss**, Perp. Sec. Imp. Acad., St. Petersburg. Died 1826, æt. 71.
 824. **Gotthelf Fischer**, Imp. Ac., St. Petersburg. Died Oct. 18, 1853, æt. 83.
 825. **Daniel Drake**, M.D., Cincinnati. Died Nov. 5, 1852, æt. 67.
 826. **Jacob Bigelow**, M.D., Rumford Professor, Cambridge, Mass. Died Jan. 10, 1879, æt. 92.

Elected January 15, 1819.

827. **John Murray**, Edinburgh. Died July 22, 1820.
 828. **Lewis Matthieu Langles**. Died Jan., 1824, æt. 61.
 829. **Roberts Vaux**. Died Jan. 7, 1836, æt. 49.
 830. **L. H. Girardin**, Baltimore. Died
 831. **H. M. D. de Blainville**, Paris. Died May, 1850, æt. 73.
 832. **John Eberle**, M.D. Died Feb. 2, 1838, æt. 54.

Elected April 16, 1819.

833. **Guill. Theophile Tliesius**, Mem. Acad. St. Petersburg. Died 1832 (?).
 834. **Count Lanjuinais**. Died Jan. 13, 1821.
 835. **Stephen Elliot**, South Carolina. Died March 28, 1838, æt. 58.

Elected June 18, 1819.

836. **Jacob Perkins**, Philadelphia. Died July 30, 1849, æt. 83.
 837. **A. G. Demarest**, Prof. Nat. Hist., etc., Paris. Died
 838. **P. A. Latrelle**, Paris. Died 1833.

Elected October 15, 1819.

839. **Alexander Brongniart**, Paris. Died Oct. 14, 1837, æt. 76.
 840. **Redmond Conyngham**, Nescopee, Pa. Died June 16, 1846, æt. 64.
 841. **Rev. Fred. Chr. Schaeffer**, New York. Died March 26, 1832, æt. 40.
 842. **William P. Dewees**, M.D., Philadelphia. Died May 18, 1841, æt. 74.
 843. **William E. Horner**, M.D., Philadelphia. Died March 13, 1853, æt. 60.
 844. **Johann A. Albers**, M.D., Bremen. Died 1821, æt. 49.

Elected January 21, 1820.

845. **Baron Joseph von Hormayer**, Vienna. Died 1848, æt. 67.

Elected April 21, 1820.

846. **William Marsden**, England. Died Oct. 6, 1836, æt. 81.
 847. **Franklin Bachs**, M.D., Philadelphia. Died March 19, 1864, æt. 72.
 848. **William Gibson**, M.D., Prof. of Surgery, University of Penna., Philadelphia.
 Died March 2, 1868, æt. 82.

Elected October 20, 1820.

849. **Rev. Samuel F. Jarvis**, N. Y. Died March 26, 1851, æt. 65.
 850. **Isaiah Lukens**, Philadelphia. Died Nov. 12, 1846, æt. 69.
 851. **John Jacob Berzelius**, Prof. Chem., Stockholm. Died Aug. 7, 1848, æt. 69.
 852. **J. A. Borgnis**, Engineer, etc., Paris.
 853. **Matthew Lesseps**, Consul of France at Philadelphia. Died
 854. **M. de Montgery**, Officer of the French Navy.
 855. **William Strickland**, Architect, Philadelphia. Died April 6, 1854, æt. 65.
 856. **John Pickering**, Esq., Salem, Mass. Died March 17, 1846.

Elected January 19, 1821.

857. **Langdon Cheves**, Pres. Bank U. S. Died June 25, 1857, æt. 81.
 858. **Levett Harris**, Esq., Philadelphia. Died Sept., 1839.
 859. **John Bannister Gibson**. Died May 3, 1853, æt. 73.

Elected April 20, 1821.

860. **George Alexander Otis**, Boston. Died June 23, 1863, æt. 81.
 861. **Clement C. Biddle**, Philadelphia. Died Aug. 20, 1855, æt. 70.

862. **Elisha De Butts**, M.D., Baltimore. Died
 863. **James Workman**, New Orleans. Died
 864. **Prof. Peter Afzelius**, Sweden. Died 1841, æt. 81.
 865. **Sir James Wylie**, St. Petersburg. Died 1853, æt. 85.

Elected July 20, 1821.

866. **Gustavus Count Wetterstedt**, Sweden. Died 1837, æt. 61.
 867. **Mathew Carey**, Philadelphia. Died Sept. 16, 1839, æt. 79.

Elected January 18, 1822.

868. **Baron Wm. Von Humboldt**, Berlin. • Died April 8, 1835, æt. 74.
 869. **Peter Poletica**, Minister of Russia to the U. S. Died
 870. **P. Pedersen**, Minister of Denmark to the U. S. Died Aug. 16, 1851, æt. 80
 871. **Samuel Parkes**, Chemist, London. Died Dec. 23, 1823, æt. 66.
 872. **Solomon W. Conrad**, Philadelphia. Died Oct. 2, 1831.

Elected April 19, 1822.

873. **Richard Harlan**, M.D., Philadelphia. Died Sept. 30, 1843.
 874. **Zacharias Nordmark**, Prof. of Mathematics in the Univ. Upsal. Died
 875. **Jons Svanberg**, Prof. Math. Univ. Upsal. Died Jan. 15, 1851, æt. 79.

Elected October 18, 1822.

876. **Jose Bonifacio de Andrada e Silva**, Sec. of State, Brazil. Died
 877. **Gottlob Ernst Schultze**, Prof. of Philosophy, Univ. Gött. Died 1834 (?).
 878. **Condy Raguet**, Con. U. S. at Brazil. Died March 22, 1842, æt. 58.
 879. **William H. Keating**, Prof. Min. and Chem. Univ. Penna., Philadelphia.
 Died May 17, 1844, æt. 45.
 880. **Lardner Vanuxem**, Prof. Min. C. Coll. of S. C. Died Jan. 25, 1848, æt. 56.

Elected January 17, 1823.

881. **Rev. John Plitt**, Philadelphia. Died August 11, 1824, æt. 61.
 882. **Baron Coquebert de Montbret**, Member Inst. France. Died
 883. **Gaspard Deabbate**, Consul General of Sardinia to U. S. Died
 884. **Samuel Jackson**, M.D., Prof. Pharm. and Mat. Med. Coll. Pharm., Philadelphia. Died April 4, 1872, æt. 85.

Elected April 18, 1823.

885. **Benjamin H. Coates**, M.D., Philadelphia. Died Oct. 1831, æt. 83.
 886. **James Fenimore Cooper**, N. Y. Died Sept. 14, 1851, æt. 62.
 887. **Jason O'Brien Lawrance**, M.D., Philadelphia. Died Aug. 19, 1823, æt. 32.
 888. **Lucien**, Prince of Canino, Rome. Died July 29, 1840, æt. 66.
 889. **Joseph**, Count de Survilliers, Philadelphia. Died July 28, 1844.
 890. **Paul de Lovenorn**, Rear Admiral in the Danish Service. Died 1826.
 891. **H. C. Schumacher**, Copenhagen. Died Dec. 28, 1850, æt. 71.
 892. **William Darlington**, M.D., Pennsylvania. Died April 23, 1863, æt. 81.
 893. **Rev. Will. Bengo Collyer**, London. Died 1854.

Elected July 18, 1823.

894. **William Lawrence**, M.D., F. R. S., London. Died July 5, 1867.

Elected October 17, 1823.

895. **Major Stephen Harriman Long**, Philadelphia. Died Sept. 4, 1864, æt. 80.
 896. **William James Macneven**, M.D., New York. Died July 12, 1841, æt. 78.
 897. **Major Nathaniel A. Ware**, Philadelphia. Died 1854, æt. 65.
 898. **Chevallier John W. Duponceau**, France. Died July 9, 1835.

Elected January 16, 1824.

899. **Rev. Moses Stuart**, Andover,* Mass. Died Jan. 4, 1852, æt. 71.
 900. **Henry Seybert**, Philadelphia. Died March 3, 1883, æt. 82.
 901. **Heinrich Julius Klaproth**, Paris. Died 1835, æt. 52.
 902. **Joseph B. McKean**, Philadelphia. Died Sept. 3, 1826, æt. 63.
 903. **Alex. Pearson**, M.D., Phys. of the British Factory at Canton. Died

Elected April 16, 1824.

904. **A. J. Von Krusenstern**, Capt. in the Russian Navy. Died 1846, æt. 71.
 905. **Charles Bonaparte**, Prince of Musignano, Philadelphia. Died July 1857, æt. 54.

Elected July 16, 1824.

906. **Conrad J. Temminck**, Paris. Died Jan. 30, 1858, æt. 80.
 907. **Severin Lorich**, Chargé and Cons. Gen. Swed. and Nor. Died March 11,

Elected January 21, 1825.

908. **Count Nicholas de Romanzoff**. Died 1826, æt. 72.
 909. **Count John Laval**, Russia. Died May 1, 1846, æt. 87.
 910. **John J. Bigsby**, M.D., England. Died Feb. 10, 1881, æt. 88.

Elected April 15, 1825.

911. **M. Flourens**, M.D., Paris. Died Dec., 1867, æt. 72.
 912. **Count François Pierre Real**, France. Died 1834, æt. 74.
 913. **Thomas Cadwalader**, Philadelphia. Died Oct. 25, 1841, æt. 62.
 914. **John K. Kane**, Philadelphia. Died Feb. 21, 1858, æt. 63.
 915. **John D. Godman**, M.D., Philadelphia. Died April 17, 1830, æt. 31.
 916. **Charles N. Bancker**, Philadelphia. Died Feb. 16, 1867, æt. 91.
 917. **Edward Livingston**, New Orleans. Died May 23, 1836, æt. 71.

Elected July 15, 1825.

918. **José da Silva Lisboa**, Rio Janeiro. Died August 20, 1835, æt. 79.
 919. **Joseph R. Ingersoll**, Philadelphia. Died Feb. 20, 1868, æt. 82.

Elected October 21, 1825.

920. **Count Miot de Melito**, of the Nat. Inst. of France. Died Jan. 15, 1841.
 921. **Philip Tidyman**, M.D., Germantown, Pa. Died June 11, 1850, æt. 73.

Elected January 20, 1826.

922. **Samuel Humphreys**, Philadelphia. Died Aug. 16, 1846, æt. 68.
 923. **Pablo de la Llave**, Minister of Justice, Mexico. Died 1833.
 924. **John Lewis Tlarks**, Jever, East Friesland. Died May 1, 1837.

Elected April 21, 1826.

925. **Charles D. Maigs**, M.D., Philadelphia. Died June 28, 1859, æt. 77.
 926. **William McIlvaine**, Philadelphia. Died Aug. 9, 1854, æt. 68.
 927. **Jacopo Grasberg di Hemso**, Sweden. Died 1848.

Elected October 20, 1826.

928. **Henry de Struve**, Coun. of State, Russia. Died Jan. 9, 1851, æt. 80.
 929. **Gen. Lewis Cass**, Governor of the U. S. Territory of Michigan. Died June 17, 1866, æt. 80.
 930. **William Shaler**, Consul-General of the U. S. at Algiers. Died March 29, 1833, æt. 55.

Elected January 19, 1827.

931. **Honoré Torombert**, Lyons, France. Died 1829.
 932. **Joel R. Poinsett**, Charleston, S. C. Died Dec. 12, 1851, æt. 73.
 933. **René La Roche**, M.D., Philadelphia. Died Dec. 9, 1872, æt. 77.

Elected April 20, 1827.

934. **John Price Wetherill**, Philadelphia. Died July 24, 1853, æt. 59.
 935. **George Emlen**, Philadelphia. Died Aug. 27, 1850, æt. 66.
 936. **Charles Tait**, Alabama. Died Oct. 7, 1835, æt. 67.
 937. **Marcus Bull**, Philadelphia. Died
 938. **John Wilhelm Dalman**, M.D., Stockholm, Sweden. Died
 939. **George Maria Zecchinelli**, Padua, Italy. Died 1847.

Elected July 20, 1827.

940. **J. P. C. Cassado de Giraldes**, Lisbon.
 941. **James Rush**, M.D., Philadelphia. Resigned Aug. 17, 1827.
 942. **John K. Mitchell**, M.D., Philadelphia. Died April 4, 1858, æt. 65.
 943. **James Brown**, Min. Plen. of the U. S. at Paris. Died April 7, 1835, æt. 68.

Elected October 19, 1827.

944. **Noah Webster**, New Haven, Conn. Died May 28, 1843, æt. 85.

Elected January 18, 1828.

945. **José Maria Bustamante**, Mexico. Died 1861, æt. 84.
 946. **José Maria Salazar**, Colombia. Died Feb., 1828, æt. 43.
 947. **Thomas Harris**, M.D., Philadelphia. Died March 3, 1861, æt. 68.
 948. **Robert E. Griffith, Jr.**, M.D., Phila. Died June 27, 1850, æt. 53.
 949. **Charles Pickering**, M.D. Philadelphia. Resigned Sept. 15, 1837.
 950. **Samuel G. Morton**, M.D., Philadelphia. Died May 15, 1851, æt. 52.

Elected April 18, 1828.

951. **Admiral Jose M. Dantes Pereira**, Sec. Math. Cl. R. So., Lisbon.
 952. **Henry J. Anderson**, M.D., Prof. Math. Columbia College, N. Y. Died Oct. 19, 1875, æt. 75.
 953. **Isaac Lea**, Philadelphia. Died Dec. 8, 1886, æt. 94.

Elected July 18, 1828.

954. **Samuel Betton**, M.D., Germantown. Died June 9, 1850, æt. 65.
 955. **George Ticknor**, Boston. Died Jan. 26, 1871, æt. 80.

Elected October 17, 1828.

956. **James Renwick**, Columbia Col., N. Y. Died Jan. 12, 1863, æt. 70.

Elected January 16, 1829.

957. **Thomas Biddle**, Philadelphia. Died June 3, 1857, æt. 81.
 958. **Rev. William H. DeLancey**, Phila. Died April 3, 1865, æt. 68.
 959. **Hans Christian Oersted**, Copenhagen. Died March 9, 1851, æt. 74.
 960. **Baron Hyde de Neuville**, France. Died 1837, æt. 81.
 961. **Carls Christian Rafn**, Copenhagen. Died Oct. 20, 1864.
 962. **Henry Wheaton**, N. Y., Chargé d'Aff. at Copenhagen. Died March 11, 1848, æt. 63.

Elected April 17, 1829.

963. **Alexander Dallas Bache**, University of Pennsylvania, Philadelphia. Died Feb. 17, 1867, æt. 60.
 964. **Philip H. Nicklin**, Philadelphia. Died March 2, 1842, æt. 55.
 965. **James Kent**, New York. Died Dec. 12, 1847, æt. 85.
 966. **Josiah Quincy**, Harvard University, Cambridge, Mass. Died July 1, 1864, æt. 92.
 967. **Washington Irving**. Died Nov. 28, 1859, æt. 76.
 968. **Joseph Roberts**, Philadelphia. Died Aug. 25, 1835, æt. 42.

Elected July 17, 1829.

969. **R. K. Rask**, Copenhagen. Died Nov. 14, 1832, æt. 45.
 970. **Joseph N. B. V. Abrahamson**, Copenhagen. Died Jan. 6, 1849.
 971. **George B. Wood**, M.D., Philadelphia. Died March 30, 1879, æt. 82.

Elected October 16, 1829.

972. **Chevallier Charles Pougens**, Paris. Died Dec. 19, 1833, æt. 77.
 973. **Francisco de Paula Quadrada**, Madrid.
 974. **M. Jomard**, Paris. Died Sept. 23, 1862, æt. 85.
 975. **Henry S. Tanner**, Philadelphia. Died 1858, æt. 72.
 976. **Daniel B. Smith**, Philadelphia. Died March 29, 1883, æt. 90.
 977. **Thomas Horsfield**, M.D., Bethlehem, Penna. Died 1859, æt. 86.

Elected January 15, 1830.

978. **Bishop Friederich Münter**, Copenhagen. Died 1830, æt. 69.
 979. **Jean P. Abel Remusat**, Paris. Died 1832, æt. 44.
 980. **William Yarrel**, London. Died Aug. 31, 1856, æt. 72.
 981. **Chief Justice John Marshall**. Died July 6, 1835, æt. 79.
 982. **Jules de Wallenstein**, Russia. Died 1845.
 983. **Thomas McEuen**, M.D., Philadelphia. Died Feb. 27, 1873, æt. 73.

Elected April 16, 1830.

984. **Duke Bernard**, Saxe Weimar. Died 1862, æt. 70.
 985. **William B. Hodgson**, Virginia. Died June 28, 1871.
 986. **Isaac Hays**, M.D., Philadelphia. Died April 11, 1879, æt. 82.
 987. **Jonathan Sewell**, Chief Justice of Lower Canada. Died Nov. 12, 1839, æt. 73.
 988. **William Vaughan**, London. Died May 5, 1850, æt. 98.

Elected July 16, 1830.

989. **Thomas I. Wharton**, Philadelphia. Died April 7, 1856, æt. 65.

Elected October 15, 1830.

990. **Lorenzo Martini**, Turin. Died 1845.
 991. **Andres del Rio**, Professor of Mineralogy, Mexico.
 992. **Marc Antoine Jullien**, Paris. Died 1848, æt. 73.

Elected January 21, 1831.

993. **Prosper, Count Balbo**, Turin. Died March 14, 1837.
 994. **Hyacinth Carena**, Turin. Died Nov. 2, 1857.
 995. **Louis Philippe**, King of the French. Died Aug. 26, 1850, æt. 76.
 996. **Thomas P. Jones**, M.D., Wash., D. C. Died March 11, 1848, æt. 75.

Elected April 15, 1831.

997. **Henry Vethake**, Professor of Natural Philosophy, Princeton, N. J. Died Dec. 16, 1866, æt. 76.
 998. **Samuel L. Southard**, New Jersey. Died June 26, 1842, æt. 56.
 999. **Edward Everett**, Massachusetts. Died Jan. 15, 1865, æt. 70.
 1000. **Louis McLane**, Delaware. Died Oct. 7, 1857, æt. 72.
 1001. **William C. Rives**, Virginia. Died April 25, 1868, æt. 75.
 1002. **Alexander Everett**, Massachusetts. Died June 29, 1847.

Elected July 15, 1831.

1003. **Martin Fernandez Navarrete**, Madrid. Died Oct. 8, 1846.
 1004. **Francisco Antonio Gonzales**, Madrid. Died Oct. 22, 1833, æt. 60.
 1005. **John James Audubon**. Died Jan. 7, 1851, æt. 69.

Elected October 21, 1831.

1006. **Hartman Bache**, Major of U. S. Topog. Engineers. Died Oct. 8, 1872, æt. 74.
 1007. **Baron Larrey**, Paris. Died July 24, 1842, æt. 76.

Elected January 20, 1832.

1008. **Julius T. Ducatel**, Baltimore. Died April 23, 1849, æt. 53.
 1009. **Henry D. Gilpin**, Philadelphia. Died Jan. 29, 1860, æt. 58.
 1010. **John P. Hopkinson**, M.D., Philadelphia. Died March 6, 1836, æt. 32.
 1011. **John Bell**, M.D., Philadelphia. Died Aug. 19, 1872.
 1012. **Robley Dunglison**, M.D., Philadelphia. Died April 1, 1869, æt. 71.
 1013. **M. Steen Billé**. Died Nov. 28, 1860, æt. 79.
 1014. **Thomas Sergeant**, Philadelphia. Died May 5, 1860, æt. 78.

Elected April 20, 1832.

1015. **Theodore Lorin**, Paris. Died
 1016. **Hugh L. Hodge**, M.D. Philadelphia. Died Feb. 26, 1873, æt. 77.
 1017. **Col. J. J. Abert**, Washington, D. C. Died Jan 27, 1863, æt. 75.
 1018. **Juan José Martínez**, Spain.
 1019. **The Duke of Sussex**. Died April 21, 1843, æt. 70.

Elected July 20, 1832.

1020. **E. S. Bring**, Prof. Univ. of Lund, Sweden. Died in 1866.

Elected January 18, 1833.

1021. **Professor Bujalsky**, St. Petersburg. Died
 1022. **Marmaduke Burrough**, M.D., Philadelphia. Died 1844, æt. 46.
 1023. **Matthias W. Baldwin**, Philadelphia. Died Sep. 7, 1866, æt. 70.
 1024. **Edwin James**, M.D., Albany. Died Oct. 28, 1861, æt. 64.
 1025. **Moncure Robinson**, Virginia. (Present address Philadelphia.)

Elected April 19, 1833.

1026. **M. J. Labouderie**, Paris.
 1027. **Charles Nagy**, Pesth, Hungary. Died 1849.
 1028. **Jacob Randolph**, M.D., Philadelphia. Died Feb. 29, 1848, æt. 52.
 1029. **Joshua Francis Fisher**, Philadelphia. Died Jan. 21, 1873, æt. 65.
 1030. **Gouverneur Emerson**, M.D., Philadelphia. Died July 2, 1874, æt. 78.
 1031. **Henry C. Carey**, Philadelphia. Died Oct. 13, 1879, æt. 85.

Elected July 19, 1833.

1032. **Henry R. Schoolcraft**. Died Dec. 11, 1864, æt. 72.
 1033. **Viscount Santarem**, Portugal.
 1034. **Titian R. Peale**, Philadelphia. Died March 13, 1885, æt. 86.

Elected October 18, 1833.

1035. **Franklin Peale**, Philadelphia. Died May 5, 1870, æt. 74.
 1036. **Samuel V. Merrick**, Philadelphia. Died Aug. 18, 1870, æt. 70.
 1037. **Henry J. Williams**, Philadelphia. Died March 12, 1879, æt. 87.

Elected January 2, 1835.

1038. **Henry D. Rogers**, Philadelphia. Died May 28, 1866, æt. 56.
 1039. **James P. Espy**, Philadelphia. Died Jan. 26, 1860, æt. 75.
 1040. **Edward H. Courtenay**, Prof. Math. Univ. Penna. Died Dec. 21, 1853, æt. 50.
 1041. **Charles W. Short**, M.D., Lexington, Ky. Died March 7, 1863, æt. 68.
 1042. **John Brockenbrough**, Richmond, Va. Died July 3, 1852, æt. 84.
 1043. **John Wickham**, Richmond, Va. Died Jan. 17, 1839, æt. 76.
 1044. **John Torrey**, M.D., Prof. Chem. Coll. Phys. and Surg. N. Y. Died March 10, 1873, æt. 77.
 1045. **Joseph Henry**, Prof. Nat. Phil. in the College of Princeton, N. J. Died May 13, 1878, æt. 81.
 1046. **D. Francis Condle**, M.D., Philadelphia. Resigned Jan. 6, 1871.
 1047. **Col. William Drayton**, late of S. Carolina. Resigned Feb. 6, 1840.

Elected July 17, 1835.

1048. **William B. Rogers**, Prof. of N. Phil., William and Mary College, Va. Died May 20, 1882, æt. 77.
 1049. **Thomas Sully**, Philadelphia. Died Dec. 6, 1872, æt. 89.
 1050. **Charles A. Agardh**, Lund. Died Jan. 28, 1858, æt. 74.

Elected January 15, 1836.

1051. **C. C. Von Leonhard**, Heidelberg. Died Jan. 23, 1862, æt. 83.
 1052. **C. G. C. Reinwardt**, Leyden. Died
 1053. **Manuel Naxera**, Mexico. Died
 1054. **Chevalier Morelli**, Consul General of Naples.
 1055. **Job R. Tyson**, Philadelphia. Died June 27, 1858, æt. 55.
 1056. **Nathan Dunn**, Philadelphia. Died Sept 15, 1844.
 1057. **Prof. John Griscom**, now of Philadelphia. Died Feb. 26, 1852, æt. 77.

Elected April 15, 1836.

1058. **J. L. Da Costa Macedo**, Secretary of the Academy, Lisbon.
 1059. **Nicholas Carlisle**, London. Died 1848.
 1060. **Granville Penn**, Esq., Stoke Pogis, Eng. Died Sept. 28, 1844, æt. 83.

Elected October 21, 1836.

1061. **Col. Joseph G. Totten**, U. S. Engineers. Died April 22, 1864, æt. 76.
 1062. **M. Roux de Rochelle**, Paris. Died June, 1849.
 1063. **Mariano Galvez**, Governor of Guatemala.
 1064. **Edward Turner**, M.D., F.R.S., London. Died Feb. 12, 1837, æt. 40.

Elected April 21, 1837.

1065. **George Campbell**, Philadelphia. Died June 11, 1855, æt. 73.
 1066. **John Green Crosse**, Esq., Surgeon, Norwich, Eng. Died June 9, 1850.
 1067. **Jared Sparks**, Esq., Boston. Died March 14, 1866, æt. 76.
 1068. **Charles R. Leslie**, Esq., London. Died May 5, 1859.

1069. **James Cowles Prichard**, M.D., F.R.S., Bristol, Eng. Died Dec. 22, 1848, æt. 62.
 1070. **Thomas L. Winthrop**, Boston. Died Feb. 21, 1841, æt. 81.
 1071. **George Tucker**, Univ. of Virginia. Died April 10, 1861, æt. 85.

Elected July 21, 1837.

1072. **Rev. William Jenks**, Boston. Died Nov. 13, 1866, æt. 87.

Elected October 20, 1837.

1073. **Sears C. Walker**, Philadelphia. Died Jan. 30, 1853, æt. 48.
 1074. **Joseph Saxton**, Philadelphia. Died Oct. 26, 1873, æt. 74.
 1075. **William Morris Meredith**, Philadelphia. Died Aug. 21, 1873, æt. 74.
 1076. **Thomas Dunlap**, Philadelphia. Died July 11, 1864, æt. 72.
 1077. **Daniel Webster**, Massachusetts. Died Oct. 24, 1852, æt. 71.

Elected January 19, 1838.

1078. **Capt. Andrew Talcott**, U. S. Engineers. Died April 22, 1883, æt. 86.
 1079. **Thomas W. Griffith**, Baltimore. Died
 1080. **Charles G. B. Daubeny**, M.D., of the University of Oxford. Died Dec. 13, 1867, æt. 72.
 1081. **Henry Reed**, Philadelphia. Died Sept. 27, 1854, æt. 46.
 1082. **William Norris**, Philadelphia. Died Jan. 5, 1867, æt. 64.
 1083. **William Sullivan**, Boston. Died Sept. 3, 1839, æt. 65.

Elected April 20, 1838.

1084. **William Harris**, M.D., Philadelphia. Died March 3, 1861, æt. 68.
 1085. **Robert Treat Paine**, Boston. Died June 3, 1885, æt. 81.
 1086. **John P. Emmet**, M.D., Univ. of Virginia. Died Aug. 13, 1842, æt. 46.
 1087. **Hugh S. Legare**, Charleston, S. C. Died Jan. 2, 1843, æt. 54.
 1088. **Samuel Breck**, Philadelphia. Died Sept. 1, 1862, æt. 92.
 1089. **Sylvanus Thayer**, U. S. Engineers. Died Sept. 7, 1872, æt. 87.
 1090. **Rev. Francis Wayland**, Brown Univ., R. I. Died Sept. 30, 1865, æt. 61.
 1091. **Henry Baldwin**, Pennsylvania. Died April 21, 1844.
 1092. **William H. Prescott**, Boston. Died Jan., 1859, æt. 62.

Elected January 18, 1839.

1093. **James Prinsep**, Calcutta. Died 1840, æt. 40.
 1094. **John Edwards Holbrook**, M.D., Charleston, S. C. Died Sept. 8, 1871.
 1095. **John C. Cresson**, Philadelphia. Died Jan. 26, 1876, æt. 70.
 1096. **James C. Booth**, Philadelphia. Died March 21, 1888, æt. 78.
 1097. **Edward Coles**, Philadelphia. Died July 7, 1868, æt. 81.
 1098. **J. F. Encke**, Berlin. Died Aug. 26, 1865, æt. 74.
 1099. **A. Quetelet**, Brussels. Died Feb. 17, 1874, æt. 78.

Elected April 18, 1839.

1100. **Rev. Humphrey Lloyd**, Dublin. Died Jan. 17, 1881, æt. 80.
 1101. **James K. Paulding**, Sec. Navy. Died April 4, 1860, æt. 81.

Rev. John Ludlow, Philadelphia. Died Sept. 8, 1857, æt. 64.
 Benjamin W. Richards, Philadelphia. Died July 13, 1851, æt. 53.
 Rev. George W. Bethune, Philadelphia. Died April 28, 1862, æt. 57.
 George M. Justice, Philadelphia. Died April 14, 1862, æt. 70.

Elected July 19, 1839.

T. Romeyn Beck, M.D., Albany. Died Nov. 19, 1855, æt. 63.
 Richard C. Taylor, Philadelphia. Died Oct. 26, 1851, æt. 62.

Elected October 18, 1839.

Thomas U. Walter, Philadelphia. Died Oct. 30, 1887, æt. 83.
 John Penington, Philadelphia. Died March 18, 1869, æt. 67.
 Eugene A. Vail, Paris. Died 1842-3.
 Charles Ruemker, Hamburg. Died Dec. 21, 1862, æt. 74.
 John Washington, Royal Navy. Died 1864, æt. 62.
 Rev. Charles Gutzlaff, Macao. Died Aug. 9, 1851, æt. 48.
 Elias Loomis, Western Reserve College, Ohio. Died Aug. 15, 1889, æt. 78.
 Stephen Alexander, Princeton, N. J. Died June 25, 1883, æt. 76.

Elected January 17, 1840.

Judah Dobson, Philadelphia. Died Sept. 26, 1850.
 John Forbes, M.D., Chichester. Died Nov. 13, 1861, æt. 74.
 Michael Faraday, London. Died Aug. 25, 1867, æt. 78.
 Rev. C. R. Demmé, Philadelphia. Died Sept., 1861, æt. 74.
 John J. Vanderkemp, Philadelphia. Died Dec. 4, 1855, æt. 72.
 Rev. Philip Milledoler, New Jersey. Died Sept. 22, 1852, æt. 77.
 Pedro de Angelis, Buenos Ayres.
 Isaac Wayne, Pennsylvania. Died Oct. 25, 1852, æt. 83.
 Samuel D. Ingham, Pennsylvania. Died June 5, 1860, æt. 80.
 George M. Dallas, Philadelphia. Died Dec. 31, 1864, æt. 72.
 Martin H. Boyè, Philadelphia. (Present address, Coopersburg, Lehigh Co., Pa.)

Elected April 17, 1840.

Hartman Kuhn, Philadelphia. Died Nov. 6, 1860, æt. 76.
 F. W. Bessel, Königsberg. Died March 17, 1846.
 William R. Fisher, M.D., Philadelphia. Died Oct. 26, 1842, æt. 34.
 Capt. Francis Beaufort, London. Died Dec. 17, 1857, æt. 84.
 Paul B. Goddard, M.D., Philadelphia. Died July 5, 1866, æt. 57.
 W. H. C. Bartlett, West Point. (Present address, Yonkers, N. Y.)
 George M. Wharton, Philadelphia. Resigned Nov. 29, 1859.
 George Washington Smith, Philadelphia. Died April 22, 1876, æt. 76.

Elected July 17, 1840.

Robert Were Fox, Falmouth, Eng. Died July 25, 1877, æt. 88.
 John Sanderson, Philadelphia. Died April 5, 1844.
 Francisco Martinez de la Rosa, Madrid. Died 1862, æt. 73.
 James D. Graham, U. S. Topographical Engineers. Died Dec. 29, 1865.
 J. B. B. Eyries, Paris. Died 1846, æt. 79.

Elected October 16, 1840.

1141. **Charles Bonnycastle**, Univ. of Va. Died Oct. 31, 1840.
 1142. **François P. G. Guizot**, France. Died Sept. 12, 1874, æt. 86.

Elected January 15, 1841.

1143. **Chev. Bernardo Quaranta**, Naples.
 1144. **David Irvin**, Wisconsin. Died 1872, æt. 73.
 1145. **Adolph C. P. Callisen**, Copenhagen. Died
 1146. **William Rawle**, Philadelphia. Died Aug. 9, 1858, æt. 71.
 1147. **Rev. Benjamin Dorr**, Philadelphia. Died Sept. 18, 1869, æt. 73.
 1148. **John L. Stephens**, New York. Died Oct. 12, 1852, æt. 47.
 1149. **Tobias Wagner**, Philadelphia. Died Feb. 19, 1868, æt. 75.

Elected April 16, 1841.

1150. **Gen. Sir Edward Sabine**, London. Died 1883.
 1151. **Isaac R. Jackson**, Philadelphia. Died July 27, 1842, æt. 37.
 1152. **Rev. Roswell Park**, Philadelphia. Died July 16, 1869, æt. 62.
 1153. **Robert Christison**, M.D., Edinburgh. Died 1880 or 1881 (?).
 1154. **Edward Hitchcock**, Massachusetts. Died Feb. 27, 1864, æt. 70.
 1155. **William Peter**, British Consul at Philadelphia. Died Feb. 6, 1853.
 1156. **A. P. de Candolle**, Geneva. Died Sept. 9, 1841.

Elected July 16, 1841.

1157. **George Bancroft**, Boston. (Present address, Washington, D. C.)

Elected January 21, 1842.

1158. **Alexis de Tocqueville**, Paris. Died
 1159. **Baron de Roenne**, Prussia. Died April (?), 1865, æt. 67.
 1160. **John F. Frazer**, Philadelphia. Resigned Dec. 30, 1858.
 1161. **E. Otis Kendall**, Philadelphia.
 1162. **Charles Lyell**, London. Died Feb. 23, 1875.
 1163. **J. N. Niccollet**, Washington. Died Sept. 11, 1843.
 1164. **Baron de la Doucette**, Paris. Died 1848, æt. 76.
 1165. **E. W. Brayley**, London. Died Feb. 1, 1870, æt. 69.

Elected April 15, 1842.

1166. **Stephen Endlicher**, Vienna. Died 1849.
 1167. **D. Humphreys Storer**, M.D., Boston.
 1168. **Simeon Borden**, Boston. Died Oct. 28, 1856, æt. 58.

Elected July 15, 1842.

1169. **Petty Vaughan**, London. Died July 30, 1854, æt. 66.
 1170. **Frederick Fraley**, Philadelphia.

Elected October 21, 1842.

1171. **Rev. George Peacock**, Cambridge, Eng. Died
 1172. **J. I. Clark Hare**, Philadelphia. Resigned Nov. 27, 1876.
 1173. **Benjamin Peirce**, Harvard University. Died Oct. 6, 1880, æt. 71.

Elected January 20, 1843.

- 1174. **Leopold II**, Grand Duke of Tuscany. Died 1870, æt. 73.
- 1175. **Louis Agassiz**, Neufchatel. Died Dec. 14, 1873, æt. 64.
- 1176. **William W. Gerhard**, M.D., Philadelphia. Died April 28, 1872, æt. 63.
- 1177. **Sir William Reid**, Governor of Bermuda. Died Oct. 21, 1858, æt. 67.
- 1178. **Thomas P. Cope**, Philadelphia. Died Nov. 22, 1854, æt. 87.
- 1179. **John Lenthall**, Philadelphia. Died April 11, 1882, æt. 74.
- 1180. **Solomon W. Roberts**, Philadelphia. Died March 22, 1882, æt. 71.
- 1181. **Ellwood Morris**, Philadelphia. Died April 2, 1872, æt. 59 (?).
- 1182. **Charles Ellett, Jr.**, Philadelphia. Died June 21, 1862, æt. 52.
- 1183. **Charles B. Trego**, Philadelphia. Died Nov. 10, 1874, æt. 80.
- 1184. **Cavaliere Mustoxidi**, Corfu. Died July 29, 1860.

Elected April 21, 1843.

- 1185. **Charles Wilkes**, U. S. Navy. Died Feb. 8, 1877, æt. 76.
- 1186. **Charles McEuen**, Philadelphia. Died Nov. 18, 1857, æt. 56.

Elected July 21, 1843.

- 1187. **William H. Dillingham**, Philadelphia. Died Dec. 11, 1854, æt. 65.
- 1188. **Count Cancrine**, St. Petersburg. Died Sept. 22, 1845, æt. 70.
- 1189. **Stanislas Julien**, Paris. Died 1873, æt. 82.
- 1190. **John Downes**, Philadelphia. Died Sept. 29, 1882, æt. 84.

Elected January 19, 1844.

- 1191. **Theodore Strong**, New York. Died Feb. 1, 1869, æt. 79.
- 1192. **Alfred L. Elwyn**, M.D., Philadelphia. Died March 15, 1884, æt. 80.
- 1193. **Robert Bridges**, M.D., Philadelphia. Died Feb. 20, 1882, æt. 96.
- 1194. **John W. Draper**, M.D., New York. Died Jan. 4, 1882, æt. 71.
- 1195. **William A. Norton**, Delaware College. Died Sept. 21, 1883, æt. 72.
- 1196. **J. W. Francis**, M.D., New York. Died Feb. 8, 1861, æt. 71.
- 1197. **W. C. Redfield**, New York. Died Feb. 12, 1867, æt. 68.
- 1198. **T. G. Mower**, M.D., U. S. A. Died Dec. 7, 1852, æt. 62.
- 1199. **John Locke**, M.D., Cincinnati. Died July 10, 1856, æt. 64.
- 1200. **Rev. Alonzo Potter**, New York. Died June 4, 1865, æt. 65.
- 1201. **Roger B. Taney**, Chief Justice of the U. S. Died Oct. 12, 1864, æt. 87.
- 1202. **Joseph Story**, Mass. (Supreme Court U. S.). Died Sept. 10, 1845, æt. 65.
- 1203. **Benjamin F. Butler**, New York. Died Nov. 5, 1858, æt. 63.
- 1204. **Jacob R. Eckfeldt**, Philadelphia. Died Aug., 1872.
- 1205. **William Ewing Du Bois**, Philadelphia. Died July 14, 1881, æt. 70.
- 1206. **John C. Trautwine**, Philadelphia. Died Sept. 14, 1883, æt. 74.
- 1207. **John S. Hart**, Philadelphia. Died March 26, 1877, æt. 67.

Elected April 19, 1844.

- 1208. **Samuel S. Haldeman**, Chickies, Penna. Died Sept. 10, 1880, æt. 68.
- 1209. **George W. Norris**, M.D., Philadelphia. Died March 4, 1875, æt. 67.
- 1210. **Joseph Carson**, M.D., Philadelphia. Died Dec. 30, 1876, æt. 68.

Elected January 17, 1845.

1211. **Charles Frederick Beck**, M.D., Philadelphia. Died
 1212. **Richard Owen**, London.
 1213. **Sir James Clark**, Bart., M.D., London. Died 1870, æt. 82.
 1214. **Prince Maximilian**, Wied, Germany. Died Feb. 3, 1867, æt. 84.
 1215. **James Copland**, M.D., London. Died July 14, 1870, æt. 77.
 1216. **William Tell Poussin**, Paris.
 1217. **J. A. Alexander**, Princeton, N. J. Died Jan. 28, 1860, æt. 50.
 1218. **Frederick Von Raumer**, Berlin. Died June 14, 1873, æt. 92.

Elected April 18, 1845.

1219. **Edward Miller**, Philadelphia. Died Feb. 1, 1872, æt. 61.

Elected October 17, 1845.

1220. **William B. Carpenter**, M.D., London. Died Nov. 10, 1885, æt. 72.
 1221. **Sir William Jardine**, Bart., Scotland. Died 1876 (?).
 1222. **Karl Richard Lepsius**, Berlin. Died July 11, 1884, æt. 74.

Elected January 16, 1846.

1223. **Henry Holland**, M.D., London. Died Oct. 28, 1873, æt. 85.
 1224. **Johannes Mueller**, Berlin. Died
 1225. **James Buchanan**, Lancaster. Died Jan., 1868, æt. 75.

Elected April 17, 1846.

1226. **Lewis Waln**, Philadelphia. Died Dec. 20, 1863, æt. 68.
 1227. **James B. Rogers**, M.D., Philadelphia. Died June 15, 1852, æt. 50.

Elected October 16, 1846.

1228. **Richard S. McCulloh**, Philadelphia. Died
 1229. **Ceva Grimaldi**, Marquis of Pietracatella, Naples.

Elected April 16, 1847.

1230. **A. T. Kupffer**, St. Petersburg. Died June 4, 1865, æt. 65.
 1231. **U. J. Leverrier**, Paris. Died Sept 23, 1877, æt. 66.
 1232. **John Y. Mason**, Virginia. Died Oct. 3, 1859.
 1233. **Richard A. Tilghman**, Philadelphia.
 1234. **William Proctor, Jr.**, Philadelphia. Died Feb. 10, 1874.

Elected January 21, 1848.

1235. **John F. James**, Philadelphia. Died Feb. 5, 1871, æt. 69.
 1236. **Robert Baird**, D.D., New York. Died
 1237. **J Melville Gilliss**, Washington. Died Feb. 19, 1865, æt. 55 to 60.
 1238. **John Couch Adams**, Cambridge, Eng.
 1239. **Asa Gray**, Cambridge, Mass. Died Jan. 30, 1888, æt. 78.
 1240. **Gustav Adolph Jahn**, Leipsic. Died 1862.

Elected April 21, 1848.

- 1242. **Simon Greenleaf**, Harvard University. Died Oct. 6, 1853, æt. 70.
- 1243. **William Kent**, New York. Died Jan. 4, 1861, æt. 59.
- 1244. **William L. Storrs**, Connecticut. Died June 21, 1861, æt. 66.
- 1245. **Joel Jones**, Girard Coll., Philadelphia. Died Feb. 2, 1860, æt. 54.
- 1246. **John Reed**, Dickinson College. Died Jan. 19, 1850, æt. 64.
- 1247. **Alexander H. Stephens**, M.D., New York. Died
- 1248. **Harmar Denny**, Pittsburgh, Penna. Died Jan. 29, 1852, æt. 58.
- 1249. **Ralph J. Ingersoll**, New Haven, Conn. Died 1872.
- 1250. **John N. Conyngham**, Luzerne Co., Penna. Died March, 1871.
- 1251. **Charles Picot**, Philadelphia. Died June 26, 1852, æt. 60.
- 1252. **E. Geddings**, M.D., Charleston, S. C. Died 1878, æt. 79.
- 1253. **Calderon de la Barca**, Washington. Died May 31, 1861, æt. 70.
- 1254. **F. A. Pouchet**, M.D., Rouen, France. Died Dec. 6, 1872, æt. 74.
- 1255. **Miers Fisher Longstreth**, Philadelphia. (Present address, Darby, Penna.)
- 1256. **Samuel F. B. Morse**, New York. Died April 3, 1872, æt. 81.

Elected January 19, 1849.

- 1257. **E. N. Horsford**, Cambridge, Mass.
- 1258. **George P. Marsh**, Vermont. Died July 23, 1882, æt. 81.

Elected October 19, 1849.

- 1259. **John Goodsir**, Edinburgh. Died March, 1867, æt. 52.
- 1260. **John Hughes Bennett**, M.D., Edinburgh. Died Sept. 25, 1875, æt. 63.
- 1261. **Francis Kiernan**, London. Died Dec. 31, 1874.
- 1262. **A. A. Gould**, M.D., Boston, Mass. Died Sept. 17, 1866, æt. 57.
- 1263. **Joseph Leidy**, M.D., Philadelphia.
- 1264. **W. S. W. Ruschenberger**, M.D., U. S. Navy, Philadelphia.

Elected January 17, 1851.

- 1265. **Stephen Colwell**, Philadelphia. Died Jan. 15, 1871, æt. 70.
- 1266. **John H. Towne**, Philadelphia. Died April 6, 1875, at Paris.
- 1267. **Charles M. Wetherill**, M.D., Philadelphia. Died March, 1871.
- 1268. **Joel B. Reynolds**, Philadelphia. Died May 16, 1851, æt. 25.
- 1269. **Thomas S. Kirkbride**, M.D., Philadelphia. Died Dec. 17, 1883, æt. 74.
- 1270. **Lucas Alaman**, Mexico. Died June 2, 1853.
- 1271. **Benjamin Apthorp Gould, Jr.**, Cambridge, Mass.
- 1272. **George M. Totten**, Philadelphia. Died June 8, 1884, æt. 75.
- 1273. **Joseph W. Farnum**, M.D., New York. (Present address, Camden, N. J.)

Elected April 18, 1851.

- 1274. **Rev. Henry A. Boardman**. Resigned Nov. 30, 1859.
- 1275. **Thomas D. Muetter**, M.D., Philadelphia. Died March 16, 1859, æt. 48.
- 1276. **Caspar Morris**, M.D., Philadelphia. Resigned Dec. 21, 1860.
- 1277. **William Pepper**, M.D., Philadelphia. Died Oct. 15, 1864, æt. 54.
- 1278. **Isaac Hazlehurst**, Philadelphia. Resigned July 15, 1859.
- 1279. **Peter McCall**, Philadelphia. Died Oct. 30, 1880, æt. 72.

1280. **Joseph Pancoast**, M.D., Philadelphia. Died May 7, 1882, æt. 76.
 1281. **Jacob G. Morris**, Philadelphia. Died Sept. 27, 1854, æt. 54.
 1282. **Robert Patterson**, Philadelphia.
 1283. **Francesco Cav. Zantedeschi**, Padua. Died March 30, 1873, æt. 76.
 1284. **Daniel Kirkwood**, Pottsville. (Present address, Riverside, California.)
 1285. **William Chauvenet**, Annapolis. Died Dec. 13, 1870, æt. 51.

Elected October 17, 1851.

1286. **George Sharswood**, Philadelphia. Died May 28, 1883, æt. 72.
 1287. **John Le Conte**, New York. Died Nov. 21, 1860, æt. 77.
 1288. **Edward Hallowell**, M.D., Philadelphia. Died Feb. 20, 1860, æt. 51.
 1289. **Elisha K. Kane**, M.D., Philadelphia. Died Feb. 16, 1857, æt. 37.
 1290. **James Dundas**, Philadelphia. Died July 4, 1865, æt. 80.
 1291. **Isaac R. Davis**, Philadelphia. Died Feb. 4, 1857, æt. 48.

Elected January 16, 1852.

1292. **Francis Gurney Smith**, M.D., Philadelphia. Resigned Dec. 15, 1876.
 1293. **John Forsyth Meigs**, M.D., Philadelphia. Died Dec. 17, 1882, æt. 65.
 1294. **Edward King**, Philadelphia. Died May 8, 1873, æt. 79.
 1295. **George N. Eckert**, M.D., Philadelphia. Died
 1296. **Charles Henry Davis**, U. S. Navy. Died Feb. 18, 1877, æt. 70.
 1297. **J. W. Balley**, West Point. Died Feb. 26, 1857.
 1298. **Michel Chevalier**, Paris. Died Nov. 28, 1879, æt. 74.
 1299. **Alfred Stillé**, Philadelphia. Resigned Dec. 28, 1882.

Elected May 7, 1852.

1300. **John Neill**, M.D., Philadelphia. Died Feb. 12, 1880, æt. 60.
 1301. **John J. Reese**, M.D., Philadelphia. Resigned Aug., 1861.
 1302. **Joseph S. Hubbard**, National Observatory, Washington. Died Aug. 16, 1863, æt. 40.
 1303. **W. C. Bond**, Cambridge, Mass. Died Jan., 1859, æt.
 1304. **Thomas B. Wilson**, M.D., Philadelphia. Died March 15, 1865, æt. 58.
 1305. **John Cassin**, Philadelphia. Died Jan. 10, 1869, æt. 55.
 1306. **John H. Alexander**, Baltimore. Died March 2, 1867, æt. 54.

Elected November 5, 1852.

1307. **M. F. Maury**, U. S. Navy. Expelled March 21, 1862.

Elected January 21, 1853.

1308. **A. L. Crelle**, Berlin. Died 1856, æt.
 1309. **C. F. Gauss**, Göttingen. Died Feb. 23, 1855, æt. 77.
 1310. **B. Augustin Cauchy**, Paris. Died May 23, 1857, æt. 67.
 1311. **J. Liouville**, Paris. Died Sept. 10, 1882, æt.
 1312. **J. G. Fluegel**, U. S. Consul at Leipsic. Died
 1313. **O. M. Mitchell**, Cincinnati. Died Oct., 1862, æt. 52.
 1314. **Robert M. Bird**, M.D., Philadelphia. Died Jan. 23, 1854, æt. 48.

1315. **John L. Le Conte**, M.D., Philadelphia. Died Nov. 15, 1883, æt. 58.
 1316. **Edward E. Law**, Philadelphia. Resigned Sept. 16, 1864.
 1317. **W. F. Lynch**, U. S. Navy. *Expelled* March 21, 1862.
 1318. **John P. Kennedy**, Secretary of the Navy. Died Aug. 18, 1870, æt. 75.
 1319. **Alfred Mordecai**, U. S. Army. Died Oct. 23, 1887, æt. 83.

Elected April 15, 1853.

1320. **Thomas L. Patterson**,
 1321. **Henry Grinnell**, New York. Died June 30, 1874, æt. 74.
 1322. **John B. Biddle**, M.D., Philadelphia. Died Jan. 19, 1879, æt. 66.

Elected July 15, 1853.

1323. **Marshall Hall**, M.D., London and Edinburgh. Died Aug. 11, 1857, æt. 68.

Elected October 21, 1853.

1324. **Alexander Fischer Von Waldheim**, Moscow. Died July, 1884.
 1325. **Basile Sakharoff**, St. Petersburg. Died
 1326. **Peter Strelkowsky**, St. Petersburg. Died
 1327. **Charles Dworjak**, St. Petersburg. Died
 1328. **Fred. Geo. Wm. de Struve**, St. Petersburg. Died Nov., 1864, æt. 71.
 1329. **Charles D. Arfwedson**, Stockholm. Died

Elected January 20, 1854.

1330. **Edward Stanley**, London. Died May 24, 1862, æt. 69.
 1331. **Sir James Paget**, London.
 1332. **Sir J. F. W. Herschel**, London. Died May 12, 1871, æt. 80.
 1333. **E. Brown-Sequard**, M.D., Paris.
 1334. **John H. B. Latrobe**, Baltimore.
 1335. **Montgomery C. Meigs**, U. S. Army, Washington.
 1336. **Benjamin Hallowell**, Alexandria, Va. Died
 1337. **George Harding**, Philadelphia.
 1338. **Francis West**, M.D., Philadelphia. Died Sept. 24, 1868, æt. 58.
 1339. **Frederick Augustus L. C. W. Genth**, Philadelphia.
 1340. **George A. McCall**, Philadelphia. Died Feb., 1868.
 1341. **Samuel M. Felton**, Philadelphia. Died
 1342. **Samuel D. Gross**, M.D., Louisville, Ky. Died May 6, 1884, æt. 79.
 1343. **Charles Renard**, M.D., Moscow.
 1344. **C. A. Dohrn**, M.D., Stettin.
 1345. **Rev. William Bacon Stevens**, Philadelphia. Died June 11, 1887, æt. 72.

Elected April 21, 1854.

1346. **Benjamin Gerhard**, Philadelphia. Died June 18, 1864.
 1347. **Elias Durand**, Philadelphia. Died Aug. 14, 1873, æt. 79.
 1348. **William V. Keating**, M.D., Philadelphia.
 1349. **Joshua J. Cohen**, M.D., Baltimore. Died Nov. 4, 1870, æt. 70.
 1350. **Lord Mahon**, England. Died Dec. 24, 1875, æt. 70.

1351. **James Lenox**, New York. Died Feb. 19, 1880, æt. 71.
 1352. **Eli K. Price**, Philadelphia. Died Nov. 15, 1884, æt. 87.
 1353. **Constant Guillou**, Philadelphia. Died Oct. 20, 1872, æt. 60.

Elected July 21, 1854.

1354. **James D. Dana**, New Haven.
 1355. **Oliver Wolcott Gibbs**, M.D., New York. (Present address, Cambridge, Mass.?)
 1356. **James Hall**, Albany, N. Y.

Elected October 20, 1854.

1357. **William Parker Foulke**, Philadelphia. Died June 29, 1865, æt. 50.

Elected January 19, 1855.

1358. **Spencer F. Baird**, Washington, D. C. Died Aug. 19, 1887, æt. 64.
 1359. **C. Fr. Ph. von Martius**, Munich. Died Dec. 13, 1868.
 1360. **William Haidinger**, Vienna. Died May 19, 1871.
 1361. **Victor Regnault**, Paris. Died Jan. 21, 1878, æt. 68.

Elected April 20, 1855.

1362. **Samuel Powel**, Newport, R. I. Died March 5, 1885, æt. 65.
 1363. **Elisha J. Lewis**, M.D., Philadelphia. Died Feb. 10, 1877.
 1364. **Rev. E. P. Rogers**, Philadelphia. Died Oct. 23, 1881, æt. 64.

Elected July 20, 1855.

1365. **Robert E. Rogers**, M.D., Philadelphia. Died Sept. 6, 1884, æt. 77.

Elected October 19, 1855.

1366. **Rev. Albert Barnes**, Philadelphia. Died Dec. 24, 1870, æt. 72.

Elected January 18, 1856.

1367. **Henry Coppée**, Philadelphia. (Present address, Bethlehem, Penna.)
 1368. **George Allen**, Philadelphia. Died May 28, 1876, æt. 68.
 1369. **Strickland Kneass**, Philadelphia. Died Jan. 15, 1884, æt. 63.
 1370. **Henry William Field**, London.
 1371. **John P. Brown**, Constantinople. Died April 28, 1872, æt. 58.
 1372. **George Augustus Matile**, Philadelphia. Died Feb. 6, 1881, æt. 74.
 1373. **Thomas L. Kane**, Philadelphia. Died Dec. 26, 1883, æt. 61.
 1374. **William B. Reed**, Philadelphia. Resigned Nov., 1866.
 1375. **Clement A. Finley**, U. S. Army, Philadelphia. Died Sept., 1879.
 1376. **Albert S. Letchworth**, Philadelphia.

Elected April 18, 1856.

1377. **Theodore Lacordaire**, Liège. Died June, 1871.
 1378. **Hermann Burmeister**, Halle. (Present address, Buenos Ayres, S. Amer.?)

1379. **Samuel L. Hollingsworth**, M.D., Philadelphia. Died Dec. 14, 1872, æt. 57.

1380. **Christian Olrik**, Denmark. Died

Elected July 18, 1856.

1381. **Rev. John C. Adamson**, Philadelphia. Died

1382. **Peter Lesley**, Philadelphia.

1383. **Rev. John Leyburn**, Philadelphia. (Present address, Baltimore.)

1384. **Hugh Blair Grigsby**, Virginia. Died April 28, 1881, æt. 75.

Elected October 17, 1856.

1385. **Robert P. Harris**, M.D., Philadelphia. Resigned Dec. 7, 1888.

Elected January 16, 1857.

1386. **Thomas Forest Betton**, M.D., Germantown. Died May 21, 1875, æt. 65.

1387. **Theodore Cuyler**, Philadelphia. Died April 5, 1876, æt. 55.

1388. **Thomas Potts James**, Philadelphia. Died Feb. 22, 1882, æt. 79.

1389. **Nathaniel P. Shurtleff**, M.D., Boston. Died Oct. 17, 1874, æt. 65.

1390. **Fairman Rogers**, Philadelphia. (Present address, Newport, R. I.)

Elected April 17, 1857.

1392. **B. Howard Rand**, M.D., Philadelphia. Died Feb. 14, 1883, æt. 55.

1393. **Charles M. Cresson**, M.D., Philadelphia.

1394. **Rev. Kingston Goddard**, Philadelphia. Died Oct. 24, 1875, æt. 57.

1395. **J. Lawrence Smith**, M.D., Louisville. Died Oct. 12, 1883.

Elected July 17, 1857.

1396. **E. Spencer Miller**, Philadelphia. Died March 6, 1879, æt. 63.

Elected October 16, 1857.

1397. **Andrew A. Humphreys**, U. S. Topographical Engineers. Died Dec. 27, 1883, æt. 74.

Elected January 15, 1858.

1398. **Elia Lombardini**, Civil Engineer, Milan, Italy. Died Dec. 21, 1878.

1399. **Henry C. Wayne**, U. S. Army. Died March 15, 1883, æt. 68.

Elected April 16, 1858.

1400. **W. H. Allen**, President of Girard College, Philadelphia. Died Aug. 29, 1882, æt. 74.

Elected October 15, 1858.

1401. **William M. Uhler**, M.D., Philadelphia. Died Nov. 27, 1865, æt. 45.

1402. **Charles E. Smith**, Philadelphia. Resigned Dec. 15, 1876.

1403. **Edward Hartshorne**, M.D., Philadelphia. Died June 22, 1885, æt. 68.

Elected January 21, 1859.

1404. **Oswald Thompson**, Philadelphia. Died Jan. 25, 1866, æt. 57.
 1405. **Edmund C. Evans**, M.D., Chester Co., Penna. Died
 1406. **Caspar Wister**, M.D., Philadelphia. Died Dec. 20, 1888, æt. 71.

Elected April 15, 1859.

1407. **Walter H. Lowrie**, Judge of Supreme Court of Pennsylvania, Philadelphia. Died Nov. 14, 1876, æt. 69.
 1408. **William S. Vaux**, Philadelphia. Died May 5, 1882, æt. 70.
 1409. **William R. Palmer**, U. S. Topog. Eng. Died 1862.

Elected July 15, 1859.

1410. **Samuel H. Dickson**, M.D., Prof. Med. Jeff. Coll., Philadelphia. Died March 31, 1872, æt. 72.

Elected October 21, 1859.

1411. **Henry Carleton**, Philadelphia. Died March 21, 1863, æt. 76.
 1412. **William A. Hammond**, M.D., U. S. Army. (Present address, New York city, N. Y.)

Elected January 20, 1860.

1413. **P. Angelo Secchi**, Professor of Astronomy at Rome. Died Feb. 26, 1878, æt. 59.
 1414. **Aubrey H. Smith**, Philadelphia.
 1415. **Francis W. Lewis**, M.D., Philadelphia.

Elected July 20, 1860.

1416. **Francis Vandevere Hayden**, M.D., Washington. Died Dec. 22, 1887, æt. 58.
 1417. **Sidney George Fisher**, Philadelphia. Died July 25, 1871, æt. 63.
 1418. **Sir Roderick I. Murchison**, London. Died Oct. 22, 1871, æt. 79.
 1419. **Rev. Adam Sedgewick**, England. Died Jan. 28, 1873, æt. 88.
 1420. **Leonce Elie de Beaumont**, Paris. Died Sept. 34, 1874, æt. 75.
 1421. **Henry Milne Edwards**, Paris. Died July 29, 1885.
 1422. **Henry D. Bronn**, of Heidelberg. Died July 5, 1862, æt. 62.
 1423. **Theodore L. W. Bischoff**, München. Died
 1424. **Hermann Von Meyer**, Frankfort am Main. Died April 2, 1868, æt. 68.
 1425. **Andreas Wagner**, München. Died 1860.
 1426. **Joseph Hyrtl**, Vienna.
 1427. **Sir William E. Logan**, Montreal. Died June 28, 1875, æt. 77.
 1428. **Heinrich Rose**, Berlin. Died Jan. 27, 1864, æt. 68.
 1429. **George Jaeger**, Stuttgart. Died Sept. 10, 1866, æt. 80.
 1430. **Henri St. Claire Deville**, Paris. Died July, 1881.
 1431. **William H. Harvey**, Dublin. Died May 15, 1866, æt. 56.
 1432. **Jean Baptiste Dumas**, Paris. Died April 11, 1884, æt. 84.
 1433. **Edouard de Verneuil**, Paris. Died May 29, 1873, æt. 68.
 1434. **Claude Bernard**, Paris. Died Feb. 10, 1878, æt. 65.

Elected January 18, 1861.

1435. **Rev. Daniel R. Goodwin**, Provost Univ. Penna., Philadelphia.
 1436. **Leo Lesquereux**, Columbus, Ohio. Died Oct. 25, 1889, æt. 83.

Elected April 19, 1861.

1437. **John Lothrop Motley**, Minister U. S. at Vienna. Died May 29, 1877, æt. 63.
 1438. **Pascual de Guyangos**, Madrid.
 1439. **John Curwen**, M.D., Harrisburg.
 1440. **Charles des Moulins**, Bordeaux. Died Dec. 23, 1875.
 1441. **Thomas Sterry Hunt**, Montreal. (Present address, New York city, N. Y.)

Elected October 18, 1861.

1442. **Paolo Volpicelli**, Rome. Died April 14, 1879.

Elected January 17, 1862.

1443. **Mirza Alexander Kasem Beg**, St. Petersburg. Died
 1444. **Otto Boehtlingk**, St. Petersburg.
 1445. **G. Forchhammer**, Copenhagen. Died Dec. 14, 1865, æt. 71.
 1446. **J. S. Steenstrup**, Copenhagen.
 1447. **C. J. Thomsen**, Director R. Mus., Copenhagen. Died May 21, 1865, æt. 76.
 1448. **Andrew C. Ramsay**, London.
 1449. **Edouard Desor**, Neuchâtel, Switz. Died Feb. 23 or 28, 1882, æt. 71,
 1450. **Louis G. de Koninck**, Liège, Belgium. Died
 1451. **Joachim Barrande**, Prague. Died Oct. 5, 1883, æt. 82.
 1452. **Robert W. Bunsen**, Heidelberg.
 1453. **August William Hofmann**, London. (Present address, Berlin, Ger.)
 1454. **Heinrich R. Goepfert**, Breslau. Died May 18, 1884, æt. 84.
 1455. **Alexander Braun**, Leipzig. Died March 29, 1877, æt. 72.
 1456. **William J. Hamilton**, London. Died Feb., 1871.
 1457. **Sir William J. Hooker**, London. Died Aug., 1865, æt. 80.
 1458. **Johann I. Kaup**, Darmstadt. Died July 4, 1873, æt. 70.
 1459. **J. A. Froude**, Oxford.
 1460. **Hermann Lebert**, M.D., Breslau. Died Aug. 1, 1878, æt. 65.
 1461. **S. Weir Mitchell**, M.D., Philadelphia.

Elected April 18, 1862.

1462. **Frederic Louis Otto Roehrig**, M.D., Philadelphia. (Present address, Los Angeles, Cal.)
 1463. **Henry L. Abbot**, U. S. T. E. (Present address, New York city, N. Y.)
 1464. **Oswald Heer**, Zurich. Died Sept. 27, 1883.
 1465. **John Lindley**, London. Died Nov. 1, 1865, æt. 66.
 1466. **Justus Von Liebig**, Munich. Died April 18, 1873, æt. 70.
 1467. **Frederick Woehler**, Göttingen. Died Sept. 23, 1882, æt. 83.
 1468. **Sir John William Dawson**, Montreal.
 1469. **Samuel F. Dupont**, U. S. Navy. Died June 23, 1865, æt. 63.

1470. **George Engelman**, M.D., Prof. N. H., St. Louis. Died Feb. 11, 1884, æt. 75.
 1471. **William S. Sullivan**, Columbus, Ohio. Died April 30 (?), 1873, æt. 70.

Elected October 17, 1862.

1472. **Evan Pugh**, Pres. Agri. Coll. Penna. Died April, 1864.
 1473. **Andrew A. Henderson**, M.D., U. S. N. Died April, 1875.
 1474. **Robert Cornellus**, Philadelphia.
 1475. **Rudolf Virchow**, Berlin.
 1476. **Fred. T. Frerichs**, Berlin. Died March 14, 1885, æt. 66.
 1477. **Thomas Jefferson Lee**, U. S. T. E., Maryland. (Present address, Washington, D. C.)
 1478. **Louis Stromeyer**, Hanover. Died June 15, 1876.
 1479. **Karl Rokitsansky**, Vienna. Died July 23, 1878.
 1480. **Henry Winsor**, Philadelphia. Died Oct. 29, 1889, æt. 86.

Elected January 16, 1863.

1481. **James Y. Simpson**, Edinburgh. Died 1870.
 1482. **Theodore Schwann**, Liège. Died Jan., 1882, æt. 72.
 1483. **Jacob Grimm**, Berlin. Died 1863.
 1484. **Franz Bopp**, Berlin. Died Oct. 23, 1867, æt. 76.
 1485. **Ernest Renan**, Paris.
 1486. **Max Müller**, Cambridge. (Present address, Oxford, Eng.)
 1487. **Josiah Dwight Whitney**, Cambridge, Mass.
 1488. **Andrew H. Worthen**, Geologist, Warsaw, Ill. (Present address, Springfield, Ill.)
 1489. **Sir Daniel Wilson**, Toronto, Canada.
 1490. **Frederick Troyon**, Lausanne. Died Oct. 30, 1866, æt. 52.
 1491. **M. Boucher des Perthes**, Abbeville. Died Aug. 3, 1868, æt. 80.
 1492. **Pliny E. Chase**, Philadelphia. Died Dec. 17, 1886, æt. 66.
 1493. **I. I. Hays**, M.D., Philadelphia. Died Dec. 17, 1881, æt. 50.
 1494. **George Smith**, M.D., Delaware Co., Penna. Died March 10, 1882, æt. 78.
 1495. **John M. Read**, Philadelphia. Died Nov. 29, 1874, æt. 77.
 1496. **Edward Jarvis**, M.D., Dorchester, Mass. Died Oct. 31, 1884.

Elected April 17, 1863.

1497. **J. E. Hilgard**, Ass. U. S. C. Sur., Washington.
 1498. **Charles Anthony Schott**, Ass. U. S. C. Sur., Washington.
 1499. **Thomas E. Blackwell**, Montreal. Died 1863.
 1500. **Benjamin Ward Richardson**, M.D., London.
 1501. **Rev. Thomas Hill**, Pres. Harvard Coll., Cambridge. (Present address, Portland, Me.)
 1502. **William Dwight Whitney**, Prof. Yale Coll., New Haven.
 1503. **Chester Dewey**, Prof. Rochester University, N. Y. Died Dec. 13, 1869, æt. 82.
 1504. **Rev. William Henry Green**, Prof. Theo. Sem., Princeton, N. J.
 1506. **Rev. E. A. Washburne**, Philadelphia. Died Feb., 1881.
 1507. **James McClune**, Prof. Ast., C. High School, Philadelphia.
 1508. **Rev. Calvin Pease**, Rochester. Died Sept. 17, 1863.

Elected July 17, 1863.

1509. **John Biddle**, Philadelphia. Died Oct. 19, 1884, æt. 71.
 1510. **Henry Hartshorne**, M.D., Philadelphia. (Present address, Germantown, Phila.)
 1511. **David F. Eschricht**, M.D., Copenhagen. Died 1863, æt. 65.
 1512. **Christian G. N. David**, M.D., Copenhagen. Died June 18, 1874, æt. 81.
 1513. **Frederick Keller**, M.D., Zurich. Died July 21, 1881, æt. 80.
 1514. **Peter W. Sheaffer**, Geologist, Pottsville, Penna.
 1515. **A. Delesse**, Prof. Ecole des Mines, Paris. Died May 24, 1881, æt. 63.
 1516. **A. Daubree**, Prof. Acad. of Strasburg.
 1517. **R. M. S. Jackson**, M.D., Cresson, Penna. Died Jan. 18, 1865, æt. 51.
 1518. **R. A. F. Penrose**, M.D., Philadelphia.

Elected October 16, 1863.

1519. **Robert Briggs**, Philadelphia. Died July 25, 1882, æt. about 55.
 1520. **Joseph Lesley**, Philadelphia. Resigned July 29, 1885.

Elected January 15, 1864.

1521. **A. Morlot**, Prof. of Acad., Lausanne. Died Feb. 10, 1867, æt. 46.
 1522. **Thomas Chase**, Prof. Nat. Hist., Haverford College, Penna. (Present address, Providence, R. I.)

Elected April 15, 1864.

1523. **Benjamin V. Marsh**, Philadelphia. Died Oct. 30, 1882, æt. 65.
 1524. **James T. Hodge**, New York. Died Oct. 22, 1871.
 1525. **Gustaf Robert Kirchhoff**, Prof. Univ., Heidelberg. Died Oct. 17, 1887, æt. 63.
 1526. **Francis J. Pictet**, Prof. Acad. of Geneva. Died March 15, 1872, æt. 62.
 1527. **Bernard Studer**, Prof. Univ., Berne. Died May 2, 1887, æt. 93.
 1528. **Alphonse Count de Gasparin**, Paris. Died June, 1871.
 1529. **Peter Tunner**, Prof. School of Mines, Leoben.
 1530. **A. Thury**, Geneva.
 1531. **A. Tholock**, Prof. Theol. Halle an der Saale. Died June 10, 1877, æt. 79.
 1532. **Carl Schinz**, M.D., Strasburg.
 1533. **William Sellers**, Philadelphia.
 1534. **R. S. Smith**, Pres. Girard College, Philadelphia. Died Jan. 23, 1877, æt. 63.
 1535. **Alexander Wilcocks**, M.D., Philadelphia. Died Nov. 10, 1880, æt. 62.

Elected July 15, 1864.

1536. **Joseph Harrison**, Philadelphia. Died March 27, 1874, æt. 64.
 1537. **John Foster Kirke**, Boston, Mass. (Present address, Germantown, Phila.)
 1538. **George H. Cook**, N. Brunswick, N. J. Died Sept. 22, 1889, æt. 72.

Elected October 21, 1864.

1539. **Rev. Thomas Conrad Porter**, Lancaster, Penna. (Present address, Easton, Penna.)

1540. **John Bost**, Pasteur à Laforce, près de Bergerac, France. Died Dec., 1881.
 1541. **Rev. Charles P. Krauth**, Philadelphia. Died Jan. 2, 1883, æt. 59.

Elected January 20, 1865.

1543. **L'Abbé Ovide Brunet**, Quebec, Canada. Died about 1875.
 1544. **Goldwin Smith**, Toronto, Canada.
 1545. **Alexander Winchell**, Ann Arbor, Mich.
 1546. **William E. Whitman**, Philadelphia. Died July 30, 1875, æt. 73.
 1547. **George J. Brush**, New Haven, Conn.

Elected April 21, 1865.

1549. **Samuel Foster Haven**, Worcester, Mass. Died Sept., 1881, æt. 75.
 1550. **Charles D. Cleveland**, Philadelphia. Died Aug. 18, 1869, æt. 67.
 1551. **James B. Francis**, Lowell, Mass.
 1552. **George C. Shaeffer**, Washington, D. C. Died Oct. 4, 1871, æt. 59.
 1553. **Timothy A. Conrad**, Philadelphia. Died Aug. 8, 1877, æt. 74.

Elected January 19, 1866.

1554. **Thomas S. Blair**, Pittsburgh, Pa. Died
 1555. **Edward D. Cope**, M.D., Philadelphia.
 1556. **Horatio C. Wood**, M.D., Philadelphia. Resigned Jan. 3, 1883.
 1557. **George Davidson**, San Francisco.
 1558. **Charles Hale**, Roxbury, Mass. Died March (?), 1882.
 1559. **William Strong**, Washington, D. C.

Elected April 20, 1866.

1560. **Pliny Earle**, M.D., Northampton, Mass.
 1561. **Owen Jones Wister**, M.D., Philadelphia.
 1562. **Thomas Davidson**, Brighton, Eng. Died Oct. 16, 1862, æt. 69.
 1563. **Fridolln Sandberger**, Würzburg, Bavaria.

Elected October 19, 1866.

1564. **Wm. P. Schimper**, Strasburg, Germany. Died March, 29, 1880, æt. 72.
 1565. **Rev. Robert J. Breckinridge**, Danville, Ky. Died Dec. 26, 1871, æt. 71.
 1566. **Jeffries Wyman**, M.D., Cambridge, Mass. Died Sept. 4, 1874, æt. 60.
 1567. **J. M. DaCosta**, M.D., Philadelphia.

Elected January 18, 1867.

1568. **Ralph Waldo Emerson**, Concord, Mass. Died April 28, 1882, æt. 79.
 1569. **Charles Sumner**, Washington. Died March 12, 1874, æt. 65.
 1570. **John Cadwalader**, Philadelphia. Died Jan. 16, 1879, æt. 73.
 1571. **Harrison Allen**, M.D., Philadelphia.
 1572. **Andrew Mason**, New York city.
 1573. **George F. Dunning**, Brooklyn, N. Y. (Present address, Farmington, Conn.)
 1574. **B. F. Shumard**, M.D., St. Louis. Died

1575. **J. S. Newberry**, M.D., New York city.
 1576. **Rev. M. B. Anderson**, Rochester, N. Y. Died February 26, 1890, æt. 76.
 1577. **Henry Morton**, Hoboken, N. J.
 1578. **J. H. Packard**, M.D., Philadelphia.
 1579. **Charles J. Stillé**, Philadelphia. Resigned Feb. 17, 1881.
 1580. **John F. Frazer**, Philadelphia. Died Oct. 12, 1872, æt. 60.
 1581. **Rev. Henry Stafford Osborn**, Oxford, Ohio.

Elected April 19, 1867.

1582. **Hubert Anson Newton**, New Haven, Conn.
 1583. **F. B. Meek**, Washington, D. C. Died Dec. 21, 1877, æt. 59.
 1584. **Arnold Guyot**, Princeton, N. J. Died Feb., 1884, æt. 77.
 1585. **Gen. Wm. F. Raynolds**, U. S. A., Philadelphia. (Present address, Detroit, Mich.)
 1586. **Morton McMichael**, Philadelphia. Died Jan. 6, 1879, æt. 71.

Elected July 19, 1867.

1587. **Theodore Nicholas Gill**, Washington, D. C.
 1588. **Nathaniel B. Brown**, Philadelphia. Died March 13, 1875, æt. 55.
 1589. **John Welsh**, Philadelphia. Died April 10, 1886, æt. 81.
 1590. **Gen. Gouverneur K. Warren**, U. S. Eng., Newport, R. I. Died Aug. 8, 1882, æt. 63.
 1591. **John Meredith Reed**, Athens, Greece. (Present address?).

Elected October 18, 1867.

1592. **J. Sergeant Price**, Philadelphia.
 1593. **Ario Pardee**, Hazleton, Penna.
 1594. **John Stuart Mill**, London. Died May 8, 1873, æt. 67.
 1595. **Henry Charles Lea**, Philadelphia.

Elected January 17, 1868.

1596. **Samuel J. Gummere**, Haverford College, Pa. Died Oct. 22, 1874, æt. 63.
 1597. **Joseph B. Townsend**, Philadelphia.
 1598. **Edward Shippen**, Philadelphia. Resigned Jan. 4, 1884.
 1599. **Frederick Graff**, Philadelphia.

Elected April 17, 1868.

1600. **Edward Rhoads**, M.D., Philadelphia. Died Jan. 15, 1871, æt. 29.
 1601. **Gen. Ulysses S. Grant**, Washington. Died July 23, 1885, æt. 63.
 1602. **John Tyndall**, London, England.

Elected October 16, 1868.

1603. **Charles E. Anthon**, New York city. Died June, 1883, æt. 60.
 1604. **O. C. Marsh**, New Haven, Conn.
 1605. **Traill Green**, M.D., Easton, Pa.
 1606. **William Marriatt Canby**, Wilmington, Del.

Elected January 15, 1869.

- 1607. **George H. Horn**, M.D., Philadelphia.
- 1608. **William M. Gabb**, Philadelphia. Died May 30, 1878, æt. 39.
- 1609. **T. Hakakian Bey**, Cairo, Egypt. Died
- 1610. **Linant Pasha**, Cairo, Egypt. Died
- 1611. **Auguste Mariette Bey**, Cairo, Egypt. Died Jan. 19, 1881, æt. 60.
- 1612. **Ceselli**, Rome.
- 1613. **Olivier C. C. de Rougé**, Paris, France. Died Dec. 27, 1872, æt. 61.
- 1614. **Henri Brugsh**, Cairo, Egypt. (Present address, Berlin, Prussia.)
- 1615. **Dr. Johannes Dümichen**, Strasburg, Germany.
- 1616. **François J. Chabas**, Chalons sur Saone, France. Died
- 1617. **Samuel Birch**, London, England. Died Dec. 29, 1885, æt. 72.
- 1618. **Edouard Lartët**, Paris. Died 1871.
- 1619. **Joseph Prestwich**, F.R.S., London, England. (Present address, Shoreham.)
- 1620. **Carl L. Rüttimeyer**, Basel, Switzerland.
- 1621. **Wm. Henry Flower**, M.D., London, England.
- 1622. **George Rolleston**, M.D., Oxford, England. Died June 17, 1881, æt. 56.
- 1623. **Thomas W. Huxley**, London, England.
- 1624. **Sir Joseph D. Hooker**, M.D., London, England.
- 1625. **John Phillips**, Oxford, England. Died April 24, 1874, æt. 73.
- 1626. **J. J. A. Warsaæ**, Copenhagen, Denmark. Died Aug. 15, 1885, æt. 64.
- 1627. **Sven Nilsson**, Lund, Sweden. Died Nov. 30, 1883, æt. 97.
- 1628. **Auguste Carlier**, Paris, France.
- 1629. **Benjamin Smith Lyman**, Yedo, Japan. (Present address, Philadelphia.)
- 1630. **Henry Carey Baird**, Philadelphia.
- 1631. **Samuel J. Reeves**, Philadelphia. Resigned April, 1876.
- 1632. **Hector Tyndall**, Philadelphia. Died March 19, 1880, æt. 59.
- 1633. **Joshua B. Lippincott**, Philadelphia. Died Jan. 5, 1886, æt. 74.
- 1634. **Horace Binney, Jr.**, Philadelphia. Died Feb. 3, 1870, æt. 61.
- 1635. **William Blackmore**, Salisbury, England. Died

Elected April 16, 1869.

- 1636. **Daniel G. Brinton**, M.D., Philadelphia.
- 1637. **Andrew D. White**, Ithaca, N. Y.
- 1638. **John Huntington Crane Coffin**, Washington, D. C. Died Jan., 1860, æt. 75.
- 1639. **Joseph Wharton**, Philadelphia.

Elected October 15, 1869.

- 1640. **Miss Maria Mitchell**, Poughkeepsie, N. Y. Died June 28, 1889.
- 1641. **Mrs. Mary Summerville**, England. Died 1873.
- 1642. **Mrs. Elizabeth C. Agassiz**, Cambridge, Mass.
- 1643. **Charles Darwin**, Beckenham, Kent, England. Died April 20, 1882.
- 1644. **George Rawlinson**, Oxford, England.
- 1645. **Louis Gruner**, Paris, France. Died
- 1646. **Carl Vogt**, Geneva, Switzerland.
- 1647. **Carl T. E. Von Siebold**, Munich, Germany. Died Aug. 4, 1885, æt. 81.
- 1648. **Carl F. Naumann**, Leipsic, Germany. Died Nov. 26, 1873, æt. 76.

1649. **Franz Von Hochstetter**, M.D., Vienna. Died July 18, 1884, æt. 55.
 1650. **George Von Frauenfeld**, Vienna. Died 1879 (?).
 1651. **Philip T. Tyson**, Baltimore, Md. Died Dec. 16, 1877, æt. 78.
 1652. **Edward Hopper**, Philadelphia.
 1653. **Charles Bullock**, Philadelphia.
 1654. **Alfred M. Mayer**, South Bethlehem, Pa. (Present address, Hoboken, N.J.)
 1655. **Rev. George Washington Anderson**, Rosemont, Pa.

Elected January 21, 1870.

1656. **Oswald Seldensticker**, Philadelphia.
 1657. **Wm. M. Tilghman**, Philadelphia.
 1658. **Rev. Edward Everett Hale**, Roxbury, Mass.
 1659. **John Greenleaf Whittier**, Amesbury, Mass.
 1660. **Mrs. Emma Seiler**, Philadelphia. Died Dec. 21, 1886, æt. 65.

Elected April 15, 1870.

1661. **Robert Stockton Williamson**, U. S. Eng. Corp, San Francisco. Died Nov. 11, 1882, æt. 58.
 1662. **J. D. Cox**, Washington, D. C. (Present address, Cincinnati, Ohio.)
 1663. **Charles H. Hitchcock**, New York city. (Present address, Hanover, N. H.)
 1664. **Edmund Quincy**, Dedham, Mass. Died May 17, 1877, æt. 69.

Elected July 15, 1870.

1665. **C. W. Boekh**, Christiania, Norway. Died 1875.
 1666. **William Pepper**, M.D., Philadelphia.
 1667. **Rev. E. R. Beadle**, Philadelphia. Died Jan. 6, 1879, æt. 66.

Elected October 21, 1870.

1668. **Henry F. Q. D'Aligny**, New York. Died
 1669. **William P. Blake**, New Haven, Conn.
 1670. **George L. Vose**, Salem, Mass. (Present address, Boston, Mass.)
 1671. **J. Imbrie Miller**, Pennsylvania. Resigned June, 1878.
 1672. **Eckley B. Coxe**, Philadelphia. (Present address, Drifton, Pa.)

Elected January 20, 1871.

1673. **Esquirou de Parieu**, France.
 1674. **W. T. Roepper**, Bethlehem, Pa. Died March 10, 1880, æt. 70.
 1675. **Rev. W. C. Cattell**, Easton, Pa. (Present address, Philadelphia.)
 1676. **Henry M. Phillips**, Philadelphia. Died Aug. 30, 1884, æt. 74.
 1677. **Thomas Meehan**, Germantown (Philadelphia).
 1678. **George G. Meade**, U. S. A., Philadelphia. Died Nov. 7, 1872, æt. 57.
 1679. **Lieut. Clarence E. Dutton**, U. S. A., Frankford (Philadelphia). (Present address, Washington, D. C.)
 1680. **Edward Goodfellow**, Philadelphia. (Present address, Washington, D. C.)

Elected April 21, 1871.

1681. **Hermann Haupt**, Philadelphia. (Present address, Washington, D. C.)
 1682. **E. B. Andrews**, Marietta College, Ohio. Died Aug. 21, 1880, æt. 59.
 1683. **Rev. F. A. P. Barnard**, New York city. Died April 28, 1889, æt. 74.
 1684. **Rev. T. B. Woolsey**, New Haven, Conn. Died July 1, 1889, æt. 88.
 1685. **Rev. James McCosh**, Princeton, N. J.
 1686. **Charles W. Elliot**, Cambridge, Mass.

Elected July 21, 1871.

1687. **Cleveland Abbé**, Washington, D. C.
 1688. **Benj. Chew Tilghman**, U. S. A., Philadelphia.

Elected January 19, 1872.

1689. **Wm. C. Kerr**, Raleigh, N. C. Died Aug. 9, 1885, æt. 58.
 1690. **LaMotte Dupont**, Wilmington, Del. Died 1884; æt. 53.
 1691. **Wm. P. Trowbridge**, New Haven, Conn. (Present address, New York city, N. Y.)
 1692. **Wm. Elder**, M.D., Philadelphia. Died April 6, 1885, æt. 79.
 1693. **Francis Bowyer Miller**, Melbourne, Australia. Died Sept., 1887.
 1694. **Guillaume Lambert**, Louvain, Belgium.
 1695. **Persifor Frazer, Jr.**, Philadelphia.
 1696. **George W. Hough**, Albany, N. Y.
 1697. **Wm. A. Stokes**, Philadelphia. Died May (?), 1877.
 1698. **Edwin J. Houston**, Philadelphia.

Elected April 19, 1872.

1699. **Jean Baptiste Léon Say**, Paris, France.
 1700. **Lorin Blodget**, Philadelphia.
 1701. **D. Hayes Agnew**, M.D., Philadelphia.
 1702. **Adolph E. Borie**, Philadelphia. Died Feb. 5, 1880, æt. 70.

Elected July 19, 1872.

1703. **Rev. Starr Hoyt Nichols**, Philadelphia. (Present address, New York city, N. Y.)
 1704. **Coleman Sellers**, Philadelphia.
 1705. **Robert Peter**, M.D., Lexington, Ky.
 1706. **Richard J. Levis**, M.D., Philadelphia.

Elected October 18, 1872.

1707. **Alexander Johnston Cassatt**, Philadelphia.
 1708. **Clarence King**, New York city.
 1709. **Horatio Hale**, Clinton, Canada.
 1710. **Paul Broca**, Paris, France. Died July 10, 1880.
 1711. **Franz Joseph Lauth**, Munich, Bavaria.
 1712. **Isaac Norris, Jr.**, M.D., Philadelphia.

Elected January 17, 1873.

- 1713. **Sir Henry W. Acland**, M.D., Oxford, England.
- 1714. **George Borroughs**, M.D., London, England. Died
- 1715. **James E. Oliver**, Ithaca, N. Y.
- 1716. **Robert P. Frazer**, Philadelphia. Died May, 1878, æt. 59.
- 1717. **Thomas Clark**, Philadelphia. Died
- 1718. **Peter F. Rothermel**, Philadelphia. (Present address, Linfield, Pa.)
- 1719. **Joseph Zentmayer**, Philadelphia. Died March 28, 1888, æt. 62.
- 1720. **A. H. Spofford**, Washington, D. C.
- 1721. **C. Percy LaRoche**, M.D., Philadelphia. (Present address, Rome, Italy.)
- 1722. **Henry Pemberton**, Philadelphia.

Elected April 18, 1873.

- 1723. **Sir William Thomson**, F.R.S., London. (Present address, Glasgow.)
- 1724. **Alfred R. Wallace**, Croydon, England. (Present address, Godalming, England.)
- 1725. **Phillip Lutley Selater**, London.
- 1726. **Sir Henry Thompson**, M., London.
- 1727. **Edouard Dupont**, Brussels, Belgium.
- 1728. **Baron Selys de Longchamps**, Liège, Belgium.
- 1729. **Théodore M. Gougain**, Bayeux, Calvados, France. Died
- 1730. **Henri De Saussure**, Geneva, Switzerland.
- 1731. **Giovanni Capellini**, Bologna, Italy.
- 1732. **Giovanni Battista Rossi**, Rome, Italy.
- 1733. **Luigi Palmieri**, Naples, Italy. Died
- 1734. **Heinrich Helmholtz**, Berlin, Germany.
- 1735. **Theodor Mommsen**, Berlin, Germany.
- 1736. **Theodore D. Rand**, Philadelphia.
- 1737. **Joseph LeConte**, Oakland, Cal. (Present address, Berkeley, Cal.)
- 1738. **John LeConte**, Oakland, Cal. (Present address, Berkeley, Cal.)
- 1739. **John Fulton**, Saxton, Pa.
- 1740. **Lloyd P. Smith**, Philadelphia. Resigned Jan. 25, 1875.
- 1741. **George F. Barker**, Philadelphia.

Elected October 17, 1873.

- 1742. **A. Loudon Snowden**, Philadelphia.
- 1743. **John S. Haines**, Germantown, Pa. Died Nov. 4, 1886, æt. 67.
- 1744. **Matthew Huizinga Messchert**, Philadelphia. (Present address, Douglassville, Pa.)
- 1745. **J. Blodget Britton**, Philadelphia.
- 1746. **John Walter Harden**, Philadelphia. Died Nov. 8, 1879, æt. 63.

Elected January 16, 1874.

- 1747. **Joseph Miller Wilson**, Philadelphia.
- 1748. **William H. Wahl**, Philadelphia.
- 1749. **Increase Allen Lapham**, Milwaukee, Wisconsin. Died Sep. 14, 1875, æt. 65.
- 1750. **Hermann Kolbe**, Leipzig, Saxony. Died Nov. 26, 1884, æt. 66.
- 1751. **J. E. Wootten**, Reading, Pa.

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Elected April 17, 1874.

- 1752. **William Camac**, Philadelphia. Resigned Jan. 7, 1884.
- 1754. **Frank Thomson**, Altoona, Pa. (Present address, Philadelphia.)
- 1755. **Rev. Robert Ellis Thompson**, Philadelphia.
- 1756. **Joseph Norman Lockyer**, London.
- 1757. **Richard A. Proctor**, England. Died Sep. 9, 1888, æt. 51.
- 1758. **Raphael Pumpelly**, Newburgh, N. Y. (Present address, Newport, R. I.)
- 1759. **Charles Augustus Young**, Princeton, N. J.

Elected July 17, 1874.

- 1760. **Franklin Platt**, Philadelphia, Pa.
- 1761. **Sir William George Armstrong**, Newcastle-on-Tyne, England.
- 1762. **Henry Woodward**, London, England.

Elected October 16, 1874.

- 1763. **Rev. James Freeman Clarke**, Boston, Mass. Died June 8, 1888, æt. 78.
- 1764. **Franz Ritter Von Hauer**, Vienna, Austria.
- 1765. **Sir Rawson W. Rawson**, Barbadoes. (Present address, London, England.)
- 1766. **Samuel Philip Sadtler**, Philadelphia.
- 1767. **George A. König**, Philadelphia.
- 1768. **Charles Francis Himes**, Carlisle, Pa.
- 1769. **Robert Stockton Kenderdine**, M.D., Philadelphia. Died March 27, 1882, æt. 51.
- 1770. **Alfred R. C. Selwyn**, Montreal, Canada.

Elected January 15, 1875.

- 1771. **Jared P. Kirtland**, M.D., East Rockport P. O., Ohio. Died Dec. 10, 1877, æt. 84.
- 1772. **John B. Pearse**, Philadelphia. (Present address, Boston.)

Elected April 16, 1875.

- 1773. **William A. Ingham**, Philadelphia.
- 1774. **Viollet Le Duc**, France. Died Sept. 17, 1879, æt. 65.
- 1775. **John McArthur, Jr.**, Philadelphia. Resigned 1885.
- 1776. **Joseph Allison**, Philadelphia.
- 1777. **Edward Penington**, Philadelphia.
- 1778. **Henry Cadwalader Chapman**, M.D., Philadelphia.
- 1779. **Alexander Agassiz**, Cambridge, Mass.
- 1780. **Frederick Prime, Jr.**, Easton, Pa. (Present address, Philadelphia.)
- 1781. **Samuel P. Langley**, Allegheny City, Pa. (Present address, Washington, D. C.)
- 1782. **Henry S. Hagert**, Philadelphia. Died Dec. 18, 1885, æt. 51.
- 1783. **C. F. Chandler**, New York city.
- 1784. **Rossiter W. Raymond**, New York city.
- 1785. **Leonard G. Frank**, Philadelphia. Died May (?), 1876.
- 1786. **William P. Tatham**, Philadelphia.

Elected July 16, 1875.

1787. **Thomas M. Drown**, Easton, Pa. (Present address, Boston, Mass.)
 1788. **John Lyle Campbell**, Crawfordsville, Ind.

Elected October 15, 1875.

1789. **Stephen Smith**, M.D., New York city.
 1790. **William Blasius**, Philadelphia.
 1791. **Gideon E. Moore**, Jersey City, N. J. (Present address, New York city, N. Y.)
 1792. **Furman Sheppard**, Philadelphia.
 1793. **Russell Thayer**, Philadelphia. Resigned Feb. 27, 1888.
 1794. **James Clark Maxwell**, Cambridge, England. Died Nov. 4, 1879, æt. 47.
 1795. **Charles Edward Hall**, Philadelphia. (Present address, Westport, N. Y.)
 1796. **John Franklin Caril**, Pleasantville, Pa.
 1797. **Andrew Sherwood**, Mansfield, Pa.

Elected January 21, 1876.

1798. **J. Gibbons Hunt**, Philadelphia. Resigned Nov. 17, 1876.

Elected April 21, 1876.

1799. **Frank M. Etting**, Philadelphia.
 1800. **Daniel C. Gilman**, Baltimore, Md.
 1801. **Sir P. Cunliff Owen**, London, England.
 1802. **Sir Lowthian Bell**, Newcastle-on-Tyne, England.
 1803. **James Geikie**, Edinburgh, Scotland.
 1804. **Thomas C. Archer**, Edinburgh, Scotland. Died 1884, æt.
 1805. **Adolf Eric Nordenskiöld**, Stockholm, Sweden.
 1806. **C. Juhlin Dannefeld**, Stockholm, Sweden.
 1807. **Ellihu Thompson**, Philadelphia. (Present address, Lynn, Mass.)
 1808. **Charles V. Riley**, St. Louis, Mo. (Present address, Washington, D. C.)

Elected July 21, 1876.

1809. **Richard Ackerman**, Stockholm.
 1810. **John Johnston**, Middletown, Conn. Died Dec. 2, 1879, æt. 73.

Elected October 20, 1876.

1811. **Samuel Davenport**, Adelaide, S. Australia.
 1812. **Dom Pedro D'Alcantara**, Emperor of Brazil, Rio da Janeiro. (Present address, Lisbon, Portugal.)
 1813. **John F. Hartranft**, Philadelphia. Died Oct. 17, 1889, æt. 59.
 1814. **W. Milnor Roberts**, New York city. Died Dec., 1881.
 1815. **Augustus Radcliffe Grote**, Buffalo, N. Y. (Present address, Bremen.)

Elected February 2, 1877.

1816. **F. Reuleaux**, Berlin, Germany.
 1817. **Rudolf Von Wagner**, Würzburg, Germany. Died Oct. 4, 1880, æt. 58.
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- 1818. **Mariano Barcena**, Mexico.
- 1819. **E. H. Von Baumhauer**, Harlem, Holland. Died Jan. 18, 1885, æt. 64.
- 1820. **George Stuart**, Philadelphia.
- 1821. **William V. McKean**, Philadelphia.
- 1822. **Charles W. Shields**, Princeton, N. J.
- 1823. **Franklin B. Gowen**, Philadelphia. Died Dec. 14, 1889, æt. 58.
- 1824. **Henry Phillips, Jr.**, Philadelphia.
- 1825. **Henry Turner Eddy**, Cincinnati, O.
- 1826. **Cyrus Fogg Brackett**, M.D., Princeton, N. J.
- 1827. **James Morgan Hart**, Cincinnati, O.
- 1828. **Henry Armitt Brown**, Philadelphia. Died Aug. 24, 1878, æt. 33.
- 1829. **Charles William Siemens**, London, England. Died Nov. 20, 1883, æt. 61.
- 1830. **M. Russell Thayer**, Philadelphia. Resigned Nov. 23, 1883.
- 1831. **Craig Biddle**, Philadelphia.
- 1832. **Thomas Hewson Bache**, M.D., Philadelphia.
- 1833. **John Hugh McQuillen**, M.D., Philadelphia. Died March 3, 1879, æt. 53.
- 1834. **George Strawbridge**, M.D., Philadelphia.
- 1835. **William Goodell**, M.D., Philadelphia.
- 1836. **Thomas Frederick Crane**, Ithaca, N. Y.

Elected April 20, 1877.

- 1837. **Henry Draper**, M.D., New York city. Died Nov. 20, 1882, æt. 45.
- 1838. **J. T. Rothrock**, M.D., Philadelphia.
- 1839. **James Douglas**, Phoenixville, Pa.
- 1840. **John James Stephenson**, New York city, N. Y.
- 1841. **George R. Morehouse**, M.D., Philadelphia.
- 1842. **T. B. Reed**, M.D., Philadelphia.

Elected July 20, 1877.

- 1843. **H. C. Humphreys**, Philadelphia.
- 1844. **J. J. Sylvester**, Baltimore, Md. (Present address, Oxford, England.)
- 1845. **John Ericsson**, New York city. Died March 7, 1889, æt. 83.

Elected October 19, 1877.

- 1846. **William B. Taylor**, Washington.

Elected January 18, 1878.

- 1847. **Ira Franklin Mansfield**, Cannelton, Pa.
- 1848. **Ira C. White**, Morgantown, W. Va.
- 1849. **F. A. Randall**, M.D., Warren, Pa.
- 1850. **John Price Wetherill**, Philadelphia. Died Sept. 17, 1888, æt. 61.
- 1851. **Elisha Gray**, Chicago, Ill.
- 1852. **Simon Newcomb**, Washington, D.C.
- 1853. **Asaph Hall**, Washington, D. C.
- 1854. **Theodore G. Wormley**, M.D., Philadelphia.
- 1855. **Christian Henry Frederick Peters**, Clinton, N. Y.
- 1856. **James F. Watson**, Ann Arbor, Mich. Died Nov. 23, 1880, æt. 41.

1857. **Francois Andrew March**, Easton, Pa.
 1858. **Burnet Landreth**, Bristol, Pa.

Elected May 3, 1878.

1859. **C. Newlin Pierce**, Philadelphia.
 1860. **Robert Henry Alison**, M.D., Philadelphia.
 1861. **William D. Marks**, Philadelphia.
 1862. **Lewis M. Haupt**, Philadelphia.
 1863. **Burt Green Wilder**, M.D., Ithaca, N. Y.

Elected September 20, 1878.

1864. **Carl Schurz**, Washington, D. C. (Present address, New York city, N. Y.)
 1865. **Jacob B. Knight**, Philadelphia. Died March 10, 1879, æt. 48.
 1866. **Rev. Fred. Augustus Mühlenburg**, Philadelphia.
 1867. **Elliott Coues**, M.D., Washington, D. C.
 1868. **Alpheus Spring Packard, Jr.**, M.D., Salem, Mass. (Present address, Providence, R. I.)
 1869. **Joel Asaph Allen**, Cambridge, Mass. (Present address, New York city, N. Y.)
 1870. **Samuel Hubbard Scudder**, Cambridge, Mass.
 1871. **Rev. William Rudder**, Philadelphia. Died Jan. 29, 1880, æt. 58.
 1872. **Morris Longstreth**, M.D., Philadelphia.

Elected October 18, 1878.

1873. **Albert H. Smith**, M.D., Philadelphia. Died Dec. 14, 1885, æt. 51.
 1874. **Rev. Samuel Longfellow**, Germantown, Phila. Resigned March 17, 1882.
 1875. **Rev. Edward Abraham Foggo**, Philadelphia.
 1876. **M. A. Descloizeaux**, Paris, France.
 1877. **C. Schorlemmer**, Manchester, Eng.

Elected January 17, 1879.

1878. **Charles Benjamin Dudley**, Altoona, Pa.
 1879. **Philip Howard Law**, Philadelphia. Died May 22, 1888, æt. 50.

Elected April 18, 1879.

1880. **William H. Greene**, M.D., Philadelphia.
 1881. **Arthur Erwin Brown**, Philadelphia.
 1882. **Middleton Goldsmith**, M.D., Rutland, Vt. Died Nov. 26, 1887, æt. 70.
 1883. **Carl Seller**, M.D., Philadelphia.
 1884. **Richard Wood**, Philadelphia.

Elected July 18, 1879.

1885. **Charles Martins**, Montpellier, France.
 1886. **Sir George Biddell Airy**, Greenwich, Eng.
 1887. **Charles M. Wheatley**, Phoenixville, Pa. Died May 6, 1882, æt. 60.
 1888. **Andrew S. McCreath**, Harrisburg, Pa.

1889. **Ira Remsen**, Baltimore, Md.
 1890. **E. Reneviers**, Lausanne, Switzerland.
 1891. **Benjamin B. Comegys**, Philadelphia. Resigned Nov. 1, 1882.

Elected January 16, 1880.

1892. **Cavaliere Damiano Muoni**, Milan, Italy.
 1893. **Charles Francis Adams**, Boston, Mass. Died Nov. 21, 1886, æt. 79.
 1894. **Henry Wharton**, Philadelphia. Died Nov. 11, 1880, æt. 54.
 1895. **Charles A. Ashburner**, Philadelphia. Died Dec. 24, 1889, æt. 35.
 1896. **Robert C. Winthrop**, Boston, Mass.
 1897. **Archibald Geikie**, Edinburgh, Scotland.
 1898. **Oliver Wendell Holmes**, M.D., Boston, Mass.
 1899. **George Whitney**, Philadelphia. Died June 3, 1885, æt. 70.

Elected April 16, 1880.

1900. **Austin Flint**, M.D., New York city, N. Y. Died March 13, 1886, æt. 74.
 1901. **Austin Flint, Jr.**, M.D., New York city, N. Y.
 1902. **Roberts Bartholow**, M.D., Philadelphia.
 1903. **John Vaughan Merrick**, Roxborough, Philadelphia.
 1904. **Ellis Yarnall**, Philadelphia.
 1905. **Rev. George Dana Boardman**, Philadelphia.
 1906. **William B. Rogers, Jr.**, Philadelphia.
 1907. **Ogden N. Rood**, New York city, N. Y.
 1908. **Henry Martyn Chance**, Philadelphia.
 1909. **William Thomson**, M.D., Philadelphia.
 1910. **Carlile P. Patterson**, Washington, D. C. Died Aug. 15, 1881, æt. 65.
 1911. **Hampton L. Carson**, Philadelphia.
 1912. **Joseph C. Fraley**, Philadelphia.
 1913. **Rev. Joseph A. Murray**, Carlisle, Pa. Died Nov. 27, 1889, æt. 74.
 1914. **Horace Howard Furness**, Philadelphia.
 1915. **Alvan Clark**, Cambridgeport, Mass. Died August 22, 1887, æt. 84.
 1916. **Alexander E. Outerbridge, Jr.**, Philadelphia. Resigned May 15, 1882.
 1917. **Jacob B. Eckfeldt**, Philadelphia.
 1918. **Patterson DuBois**, Philadelphia.
 1919. **Lewis A. Scott**, Philadelphia.
 1920. **Cadwalader Biddle**, Philadelphia.
 1921. **Thomas H. Dudley**, Camden, N. J.
 1922. **Isaac C. Martindale**, Camden, N. J.
 1923. **William Boyd Dawkins**, Manchester, England.
 1924. **Daniel Draper**, New York city, N. Y.

Elected January 21, 1881.

1926. **Joseph Lovering**, Cambridge, Mass.
 1927. **Rev. Charles G. Ames**, Boston, Mass.
 1928. **Edward Y. McCauley**, Philadelphia.
 1929. **Addison May**, West Chester, Pa.
 1930. **Joseph J. Lewis**, West Chester, Pa. Died April 6, 1883, æt. 81.

1931. **Henry Carvill Lewis**, Germantown, Philadelphia. Died July 21, 1888, æt. 35.
 1932. **Charles Stewart Wurts**, M.D., Philadelphia.

Elected April 15, 1881.

1933. **Claudio Jannet**, Paris, France.
 1934. **Paul Leroy Beaulieu**, Paris, France.
 1935. **Emile Malézieux**, Paris, France. Died May 20, 1885, æt. 63.
 1936. **Edwin At Lee Barber**, West Chester, Pa.
 1937. **James A. H. Murray**, London, England. (Present address, Oxford.)
 1938. **William Butler**, Judge of U. S. East. Dist. Pa., West Chester, Pa.
 1939. **William W. Griscom**, Haverford, Pa.

Elected October 21, 1881.

1940. **Henry H. Gorrings**, Lieut. Com. U. S. N., Portland, Oreg. Died July 7, 1885, æt. 44.
 1941. **Jedediah Hotchkiss**, Staunton, Va.
 1942. **Charles C. Jones, Jr.**, Augusta, Ga.
 1943. **John Evans**, Hemel Hemstead, England.
 1944. **Philip Price Sharples**, West Chester, Pa.
 1946. **C. L. Doolittle**, Bethlehem, Pa.
 1947. **Mansfield Merriman**, Bethlehem, Pa.
 1948. **Rev. A. Renard**, Brussels, Belgium.
 1949. **John B. Stallo**, Cincinnati, O.
 1950. **William Ewart Gladstone**, London, Eng.

Elected January 20, 1882.

1951. **William Blades**, London, England.
 1953. **Rev. Samuel S. Lewis**, Cambridge, England.
 1954. **William W. Jefferis**, Philadelphia.
 1955. **Washington Townsend**, West Chester, Pa.

Elected April 21, 1882.

1956. **Rev. Charles W. King**, Cambridge, England. Died March 25, 1888, æt. 70.
 1957. **Rev. James W. Robins**, Philadelphia.
 1958. **Charles S. Sargent**, Brookline, Mass.
 1959. **Franklin B. Hough**, Lowville, N. Y. Died June 11, 1885, æt. 63.
 1960. **Stephen P. Sharples**, Boston, Mass.
 1961. **Charles E. Rawlins**, Liverpool, England. Died 1884.
 1962. **George DeBenneville Keim**, Philadelphia.
 1963. **Hamilton Andrews Hill**, Boston, Mass.

Elected July 21, 1882.

1964. **Léon de Rosny**, Paris, France.
 1965. **Edward Sève de Bar**, Brussels, Belgium.

1967. **Gaston Planté**, Paris, France. Died Oct., 1889.

1968. **Alexander Graham Bell**, Washington, D. C.

Elected October 20, 1882.

1969. **Charles Rau**, Washington, D. C. Died July 25, 1887, æt. 61.

1970. **Garrick Mallery, Jr.**, Washington, D. C.

1971. **Hermann Kopp**, Heidelberg, Germany.

1972. **J. Reinhardt Blum**, Heidelberg, Germany. Died Aug. 22, 1883, æt. 80.

1973. **Gustaf Tschermak**, Vienna, Austria.

Elected January 19, 1883.

1974. **Sir John Bennett Lawes**, Rothamstead, Herts, England.

1975. **John O. Westwood**, Oxford, England.

1976. **J. Cheston Morris**, M.D., Philadelphia.

1977. **James Russell Lowell**, Cambridge, Mass.

1979. **Rev. Joseph May**, Philadelphia. Resigned March, 1883.

1980. **William Morris Davis**, York Road, Oak Lane P. O., Pa.

1981. **S. F. Emmons**, Washington, D. C.

1982. **James Macfarlane**, Towanda, Pa. Died Oct. 12, 1885, æt. 66.

1983. **E. W. Claypole**, Akron, Ohio.

1984. **William H. Pancoast**, M.D., Philadelphia.

Elected April 20, 1883.

1985. **Angelo Hellprin**, Philadelphia.

1986. **Ambrose E. Lehman**, Philadelphia.

1987. **Dillwyn Parrish**, Philadelphia. Died Sept. 18, 1886, æt. 77.

1988. **Philip C. Garrett**, Logan P. O., Philadelphia.

1989. **Elisha Kent Kane**, Philadelphia. (Present address, Kane P. O., Pa.)

Elected January 18, 1884.

1990. **Walter LeConte Stevens**, Brooklyn, N. Y.

1991. **Henry M. Baird**, Yonkers, N. Y.

1991.* **William D. Kelley**, Philadelphia. Died Jan. 9, 1890, æt. 76.

1992. **James Worrall**, Harrisburg, Pa. Died April 1, 1885, æt. 61.

1993. **Heber S. Thompson**, Pottsville, Pa.

1994. **John M. Maisch**, M.D., Philadelphia.

1995. **Richard Meade Bache**, Philadelphia.

1996. **John Ashhurst**, M.D., Philadelphia.

1997. **George H. Boker**, Philadelphia. Died Jan. 2, 1890, æt. 67.

1998. **James R. Ludlow**, Judge Court Common Pleas, Philadelphia. Died Sept. 20, 1886, æt. 61.

1999. **J. Solis-Cohen**, M.D., Philadelphia.

2000. **Richard Vaux**, Philadelphia.

2001. **Ellerslie Wallace**, M.D., Philadelphia. Died March 9, 1885, æt. 66.

2002. **Isaac Sharpless**, Haverford, Pa.

2003. **William Ludlow**, Philadelphia. (Present address, Detroit, Mich.)

2004. **John Bach McMaster**, Philadelphia.

2005. **Lord Coleridge**, Chief Justice of England, London, England.
 2006. **Allen C. Thomas**, Haverford.
 2007. **Rev. Jesse Y. Burk**, Philadelphia.
 2008. **Isaac Burk**, Philadelphia.
 2009. **Monroe B. Snyder**, Philadelphia.

Elected April 18, 1884.

2010. **Edmund J. James**, Philadelphia.
 2011. **Wharton Barker**, Philadelphia.
 2012. **Richard L. Ashhurst**, Philadelphia.
 2013. **Samuel Dickson**, Philadelphia.
 2014. **Rev. Joseph F. Garrison**, Camden, N. J.
 2015. **John R. Baker**, Philadelphia.
 2016. **James H. Hutchinson**, Philadelphia. Died Dec. 27, 1889, æt. 55.
 2017. **Francis Jordan, Jr.**, Philadelphia.
 2017.* **Herbert Welsh**, Germantown, Philadelphia.
 2018. **Henry S. Frieze**, Ann Arbor, Mich. Died Dec. 7, 1889, æt. 72.

Elected July 18, 1884.

2019. **Sir John Lubbock**, London, England.
 2021. **William W. Keen**, M.D., Philadelphia.
 2022. **Nathaniel Archer Randolph**, M.D., Philadelphia. Died Aug. 21, 1887, æt. 30.
 2023. **Rev. E. W. Syle**, Philadelphia.
 2024. **Rev. Henry Clay Trumbull**, Philadelphia.

Elected October 17, 1884.

2025. **Albert S. Gatschet**, Washington, D. C.
 2026. **Gerhard Vom Rath**, Bonn, Germany. Died April 23, 1888, æt.

Elected January 16, 1885.

2027. **Lyman B. Hall**, Haverford, Pa.
 2028. **Albin Weisbach**, Freiburg.
 2029. **James W. Moore**, M.D., Easton, Pa.
 2031. **George L. Harrison**, Philadelphia. Died Sept. 9, 1885, æt. 74.
 2033. **Edward H. Well**, Philadelphia.
 2034. **Samuel Wagner**, Philadelphia.
 2035. **C. Stuart Patterson**, Philadelphia.
 2036. **Theophilus Parvin**, M.D., Philadelphia.
 2037. **George I. Richè**, Philadelphia. Resigned Nov. 23, 1889.
 2038. **George B. Roberts**, Philadelphia.
 2039. **William Osler**, M.D., Philadelphia. (Present address, Baltimore, Md.)
 2040. **Thomas Hockley**, Philadelphia.
 2041. **James C. Wilson**, M.D., Philadelphia.
 2042. **John W. Mallet**, M.D., Philadelphia. (Present address, University of Virginia, Va.)
 2043. **Samuel W. Gross**, M.D., Philadelphia. Died April 16, 1889, æt. 52.

Elected October 16, 1885.

- 2044. **William John Potts**, Camden, N. J.
- 2045. **M. Schele de Vere**, University of Virginia.
- 2046. **Edward North**, Clinton, N. Y.
- 2047. **William J. A. Bonwill**, M.D., Philadelphia.
- 2048. **Thomas M. Cleemann**, Philadelphia.
- 2049. **Horace Jayne**, M.D., Philadelphia.
- 2050. **Hermann Rollett**, Baden bei Wien, Austria.
- 2051. **Tomasso Cannizzaro**, Messina, Italy.
- 2052. **Everard F. im Thurn**, Georgetown, British Guiana.
- 2053. **John Pomialowsky**, St. Petersburg, Russia.
- 2054. **Ernest Haeckel**, Jena, Prussia.
- 2055. **Josef von Lenhossék**, Buda-Pesth, Hungary. Died Dec. 2, 1888, æt. 71.
- 2056. **Louis Pasteur**, Paris, France.
- 2057. **Giuseppe Sergi**, Rome, Italy.
- 2058. **Leopold von Ranke**, Berlin, Prussia. Died May 23, 1886, æt. 91.

Elected February 19, 1886.

- 2059. **Edward Pepper**, M.D., Paris, France.
- 2060. **Serge Nikitin**, St. Petersburg, Russia.
- 2061. **Ambrose B. Wyckoff**, U. S. N., Philadelphia. (Present address, Rio Janeiro, Brazil.)
- 2062. **Joseph B. Murdock**, U. S. N., Washington, D. C.
- 2063. **Louis Duncan**, U. S. N., Baltimore, Md.
- 2064. **George B. Anderson**, U. S. A., West Point, N. Y.
- 2065. **Robert Noxon Toppan**, Cambridge, Mass.
- 2066. **Hermann A. Hagan**, Cambridge, Mass.
- 2067. **Frederick A. Genth, Jr.**, Philadelphia.
- 2068. **James W. Holland**, M.D., Philadelphia.
- 2069. **John H. Brinton**, M.D., Philadelphia.
- 2070. **Inman Horner**, Philadelphia.
- 2071. **I. Minis Hays**, M.D., Philadelphia.
- 2072. **Charles A. Oliver**, M.D., Philadelphia.

Elected May 21, 1886.

- 2073. **Samuel W. Pennypacker**, Philadelphia.
- 2074. **John T. Napier**, Glasgow, Scotland. Died May, 1887, æt. 29.
- 2075. **William S. Baker**, Philadelphia.
- 2076. **Benjamin Sharp**, M.D., Philadelphia.
- 2077. **Henry Reed**, Philadelphia.
- 2078. **John Marshall**, M.D., Philadelphia.
- 2079. **Merrill Edwards Gates**, New Brunswick, N. J.
- 2080. **William K. Brooks**, Baltimore, Md.
- 2081. **Herbert B. Adams**, Baltimore, Md.
- 2082. **R. Somers Hayes**, New York city, N. Y.
- 2083. **John C. Branner**, Bloomington, Ind. (Present address, Little Rock, Ark.)
- 2084. **Abel Hovelacque**, Paris, France.
- 2085. **Emil Levasseur**, Paris, France.

- 2086. Victor Duruy, Paris, France.
- 2087. Marquis de Nadaillac, Paris, France.
- 2088. Francis Pulzsky, Buda-Pesth, Hungary.
- 2089. Otto Donner, Helsingfors, Finland.
- 2090. Angelo de Gubernatis, Florence, Italy.
- 2091. Paul Albrecht, Hamburg, Germany.
- 2092. Josef Szombathy, Vienna, Austria.
- 2093. Dionys Stur, Vienna, Austria.
- 2094. Edward Suess, Vienna, Austria.
- 2095. Aristides Brezina, Vienna, Austria.
- 2097. J. P. Postgate, Cambridge, Eng.
- 2098. Richard Carnac Temple, Mandalay, Upper Burma, India.
- 2099. Lord Rayleigh, Tirling Place, Witham, Eng.
- 2100. William Crookes, London, Eng.
- 2102. Duke of Argyll, London, Eng.
- 2103. Jesus Sanchez, Mexico, Mex.
- 2104. Antonio Peñafiel, Mexico, Mex. (Present address, Berlin, Prussia.)

Elected December 17, 1886.

- 2105. Morton W. Easton, Philadelphia.
- 2106. William F. Norris, M.D., Philadelphia.
- 2107. James MacAllister, Philadelphia.
- 2108. Charles S. Dolley, M.D., Philadelphia.
- 2109. John A. Ryder, Philadelphia.
- 2110. Hermann V. Hilprecht, Philadelphia.
- 2111. George W. Childs, Philadelphia.
- 2112. William B. Scott, Princeton, N. J.
- 2113. Sir Henry Sumner Maine, London, Eng. Died Feb. 3, 1888, æt. 69.
- 2114. Sir Monier Monier-Williams, London, Eng.
- 2115. Hugo Von Meltzel, Koloszvar, Hungary.
- 2116. Paul Hunfalvy, Buda-Pesth, Hungary.
- 2117. G. Well, Heidelberg, Germany.
- 2118. Henri Kiepert, Berlin, Germany.
- 2119. Adolph Bastian, Berlin, Germany.
- 2120. Friederich Mueller, Vienna, Austria.
- 2121. Matthæus Much, Vienna, Austria.
- 2122. Albert Réville, Paris, France.
- 2123. Paul Topinard, Paris, France.
- 2124. Rémi Siméon, Paris, France.
- 2125. Conrad Leemans, Leyden, Holland.
- 2126. George Curtius, Leipzig, Germany.
- 2127. Julius Platzmann, Leipzig, Germany.
- 2128. Lucien Adam, Rennes, France.
- 2129. Guido Cora, Milan, Italy.
- 2130. Bishop Crescencio Carrillo, Merida, Yucatan.
- 2131. Juan de Dios de la Rada y Delgada, Madrid, Spain.
- 2132. Vicomte Hyacinthe de Charency, St. Maurice les Charency, France.
- 2133. Gustav Adolph Hirn, Colmar, Alsace. Died Jan. 14, 1890, æt. 75.

Elected February 18, 1887.

2134. **John S. Billings**, M.D., Washington, D. C. .
 2135. **Henry F. Osborn**, Princeton, N. J.

Elected May 20, 1887.

2136. **Joseph S. Harris**, Philadelphia.
 2137. **William Powell Wilson**, M.D., Philadelphia.
 2138. **James Tyson**, M.D., Philadelphia.
 2139. **William Henry Rawle**, Philadelphia. Died April 19, 1889, æt. 66.
 2140. **Henry D. Wireman**, Philadelphia.
 2141. **Albert H. Smyth**, Philadelphia.
 2142. **Helen C. de S. Abbott**, Philadelphia. (Present address, Mrs. Helen Abbott Michael.)
 2143. **Henry H. Houston**, Philadelphia.
 2144. **William T. Barnard**, Baltimore, Md.
 2145. **Giuseppe Meneghini**, Pisa, Italy. Died
 2146. **Edgar F. Smith**, Springfield, Ohio.

Elected December 16, 1887.

2147. **Samuel Castner, Jr.**, Philadelphia.

Elected February 17, 1888.

2148. **Charles E. Sajous**, M.D., Philadelphia.
 2149. **Alexander Biddle**, Philadelphia.
 2150. **Edmund B. Wilson**, Bryn Mawr, Pa.

Elected May 18, 1888.

2151. **Talcott Williams**, Philadelphia.
 2152. **J. McKeen Cattell**, Philadelphia. (Present address, Media, Pa.)
 2153. **Alphonse Favre**, Geneva, Switzerland.

Elected December 21, 1888.

2154. **Arthur Biddle**, Philadelphia.
 2155. **Marchese Antonio di Gregorio**, Palermo, Italy.

Elected May 17, 1889.

2156. **Lester F. Ward**, Washington, D.C.
 2157. **Andrew A. Blair**, Philadelphia.
 2158. **Clarence H. Clark**, Philadelphia.
 2159. **Henry D. Gregory**, Philadelphia.

Elected October 18, 1889.

2160. **Walter J. Hoffman**, M.D., Washington, D. C.
 2161. **J. W. Powell**, Washington, D. C.
 2162. **George Brown Goode**, M.D., Washington, D. C.

Lyon G. Tyler, Williamsburg, Va.
James B. Angell, Ann Arbor, Mich.
Henry Hazlehurst, Philadelphia.
David K. Tuttle, Philadelphia.

Elected December 20, 1889.

Friederich S. Krauss, Vienna, Austria.
Sir George G. Stokes, London, Eng.
Rt. Rev. John J. Keane, Washington, D. C.
Charles C. Abbott, M.D., Trenton, N. J.
George Frieblis, M.D., Philadelphia.
Fernando Cruz, Minister of Guatemala, Washington, D. C.
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Betton, Samuel,	954	Borie, Adolph E.	1702	Burmeister, H.	1378
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Biddle, Alexander,	2149	Bost, John,	1540	Bustamente, J. M.	945
Biddle, Arthur,	2154	Botta, Carlo,	794	Butler, Benj. F.	1203
Biddle, A. Sydney,	2173	Boucher des Perthes,	1490	Butler, William,	1938
Biddle, Cadwalader,	1920	Bowditch, Nathaniel,	741	Butt, J. Martin,	191
Biddle, Clement,	147	Bowdoin, James,	462		
Biddle, Clement C.	861	Bowen, Samuel,	261	Cabanis, M.	438
Biddle, Craig,	1831	Boyé, Martin H.	1126	Cadet, M.	466
Biddle, Edward,	235	Boys, William,	640	Cadwalader, John,	231
Biddle, James,	96	Brackett, Cyrus F.	1826	Cadwalader, John,	1570
Biddle, John,	1509	Bradford, Thomas,	95	Cadwalader, Lamb.	230
Biddle, John B.	1322	Bradford, William,	393	Cadwalader, Thos.	6
Biddle, John G.	779	Brahm, F. J. S. de,	375	Cadwalader, Thos.	913
Biddle, Nicholas,	764	Branner, John C.	2083	Caldwell, Charles,	618
Biddle, Owen,	136	Braun, Alexander,	1455	Caldwell, Samuel,	86
Biddle, Thomas,	957	Brayley, E. W.	1165	Calhoun, Samuel,	781
Bigelow, Jacob,	826	Brazil, Emperor of,	1812	Callison, A. C. P.	1145
Bigsby, John J.	910	Brearily, David,	489	Calvalos, Pedro,	691
Billé, Steen,	1013	Breck, Samuel,	1088	Camac, William,	1752
Billings, John S.	2134	Breckenbridge, R. J.	1565	Campbell, George,	1065
Bingham, William,	453	Brezina, Aristides,	2095	Campbell, John L.	1788
Binney, Barnabas,	385	Bridges, Robert,	1193	Camper, Adrian G.	718
Binney, Horace,	730	Briggs, Isaac,	596	Camper, Petrus,	494
Binney, Horace, Jr.	1634	Briggs, Robert,	1519	Campomanes, Count,	370
Bird, Robert M.	1314	Bring, E.S.	1020	Canby, Wm. M.	1606
Birch, Samuel,	1617	Bringham, James,	326	Cancrine, Count,	1188
Bischoff, T. L. W.	1423	Bringham, Jos.	209	Candolle, A. P. de,	1156
Blades, William,	1951	Brinton, Daniel G.	1636	Canino, Prince of,	888
Blackmore, William,	1635	Brinton, J. H.	748	Cannizzaro, Tommaso,	2051
Blackwell, Robert,	386	Brinton, John H.	2069	Capellini, Giovanni,	1731
Blackwell, T. E.	1499	Brissot de Warville,	506	Carena, Hyacinth,	994
Blagden,	493	Britton, J. Blodget,	1745	Carey, Henry C.	1031
Blainville, H. M. de,	831	Broca, Paul,	1710	Carey, Matthew,	867
Blair, Andrew A.	2157	Brockenbrough, J.	1042	Carleton, Henry,	1411
Blair, Samuel,	628	Brongniart, Alex.	839	Carlier, Auguste,	1628
Blair, Thomas S.	1554	Bronn, Hein. D.	1422	Carlisle, Nicholas,	1049
Blake, William P.	1669	Brooke,	258	Carli, John Franklin,	1796
Blanchet, Francis,	657	Brooks, William K.	2080	Carpenter, W. B.	1220
Blasius, William,	1790	Brown, Arthur E.	1881	Carrillo, Bishop Cres-	
Bleakley, John,	516	Brown, Henry A.	1828	cencio,	2130
Blodget, Lorin,	1700	Brown, James,	943	Carson, Hampton L.	1911
Blum, J. Reinhardt,	1972	Brown, John P.	1371	Carson, John,	396
Blumenbach, J. F.	639	Brown, Nathaniel B.	1588	Carson, Joseph,	1210
Boardley, J. B.	364	Brown, Samuel,	651	Carter, Landon,	254
Boardman, Geo. Dana,	1905	Bruce, Archibald,	727		

Cass, Lewis,	929	Comegys, Benj. B.	1891	Danmours,	366
Cassat, A. Johnston,	1704	Condie, D. Francis,	1046	Dannefeld, C. J.	1806
Cassin, John,	1305	Condorcet, Marquis,	330	Dantes Pereira, J. M.	951
Castilione, Count de,	443	Conover, Samuel F.	716	Darlington, William,	892
Castner, Samuel, Jr.	2147	Conrad, Solomon W.	872	Darwin, Charles,	1643
Cathrall, Isaac,	613	Conrad, Timothy A.	1553	Darwin, Erasmus,	567
Cattell, J. McKeen,	2152	Conyngham, J. N.	1250	D'Aschkow, Princess,	510
Cattell, W. C.	1675	Conyngham, R.	840	Daubenton,	331
Cauchy, B. A.	1310	Cooke, G. H.	1538	Daubeny, C. G. B.	1080
Cavanillas, A. J.	692	Coombe, Thomas,	62	Daubrée, A.	1516
Ceracchi, Joseph,	560	Coombe, Thomas,	309	Davenport, Samuel,	1811
Ceselli, Dr.	1612	Cooper, James F.	886	David, C. G. N.	1512
Chabas, M. F.	1616	Cooper, Myles,	253	Davidson, George,	1557
Chalmers, Lionel,	197	Cooper, Thomas,	663	Davidson, James,	105
Chance, Henry Martin,	1908	Cope, Edward D.	1555	Davidson, Robert,	369
Chandler, C. F.	1783	Cope, Thomas P.	1178	Davidson, Thomas,	1562
Chapman, Henry C.	1778	Copland, James,	1215	Davis, Benjamin,	145
Chapman, John,	158	Coppée, Henry,	1367	Davis, Charles H.	1296
Chapman, Nathaniel,	721	Coquebert, Baron,	882	Davis, Isaac R.	1291
Charency, Hyacinthe		Cora, Guido,	2129	Davis, John,	752
de,	2132	Cornelius, Robert,	1474	Davis, John,	108
Charles, M.	437	Correà de Serra, Jos.	754	Davis, William Morris,	1980
Chase, Pliny E.	1492	Coste,	367	Davy, Humphrey,	745
Chase, Thomas,	1522	Coues, Elliott,	1867	Dawkins, Wm. Boyd,	1923
Chastellux, Chev. de,	361	Coupigny,	571	Dawson, James W.	1468
Chauncey, Charles,	767	Courtenay, Ed. H.	1040	Deabbate, Gaspard,	883
Chauvenet, Wm.	1285	Cox, J. D.	1662	Dearborn, Benjamin,	679
Chevalier, Michel,	1298	Cox, John,	492	Deas, John,	225
Cheves, Langdon,	857	Coxe, Daniel,	291	De Beaumont, E.	1420
Chew, Benjamin,	47	Coxe, Eckley B.	1672	De Butts, Elisha,	862
Chew, Benjamin, Jr.	454	Coxe, John Redman,	641	De Gasparin, A.	1528
Childs, George W.	2111	Coxe, Tench,	601	De Guyangos, P.	1438
Christison, Robert,	1153	Craig, Isaac,	460	De Koninck, L. G.	1450
Church, John,	674	Crane, Thos. Fred'k,	1836	Delambre, J. B. J.	680
Clark, Alvan,	1915	Crawford, Adair,	395	Delamètrie, J. C.	798
Clark, Clarence H.	2158	Crelle, A. L.	1308	DeLancey, Wm. H.	958
Clark, Daniel,	256	Crelle, Lorenz,	442	Delany, Sharp,	325
Clark, Sir James,	1213	Cresson, Charles M.	1393	Delesse, A.	1515
Clarke, James F.	1763	Cresson, John C.	1095	Deleuze, J. P. F.	799
Clarke, Thomas,	1717	Crevecœur, St. Jean,	491	Delgada, Juan de Dias	
Clarkson, Gerardus,	211	Crookes, William,	2100	de la Rada y,	2131
Clarkson, Matthew,	241	Crosse, John Green,	1066	Del Rio, Andres,	991
Clay, Joseph,	643	Cruz, Fernando,	2172	Demarest, A. G.	837
Claypole, E. W.	1983	Cullen, William,	26	Demmè, C. R.	1119
Cleaveland, Parker,	820	Cunat, Joanne Bapt.	616	Denny, Harnar,	1248
Cleeman, Thomas M.	2048	Currie, William,	568	Denormandie, John,	112
Cleveland, Chas. D.	1550	Curtius, George,	2126	De Rouge, Vicomte	
Clifford, Thomas,	248	Curwen, John,	1439	Emmanuel,	1613
Clinton, DeWitt,	777	Cutbush, James,	771	Des Cloizeaux, M. A.	1876
Cloud, Joseph,	712	Cuthbert, Ross,	733	Des Moulins, C.	1440
Clymer, George,	421	Cutler, Manasseh,	397	Desor, Edouard,	1449
Coates, Benjamin H.	885	Cuyler, Theodore,	1387	De Verneuil, E.	1433
Coffin, J. H. C.	1638			Deveze,	594
Cohen, Joshua J.	1349			Deville, St. Claire,	1430
Cohen, J. Solis,	1939	DaCosta, Jacob M.	1567	Deweese, William P.	842
Colden, Cadwalader,	31	Da Costa, Macedo,	1058	Dewey, Chester,	1503
Coleman, William,	27	D'Alcantara, Dom P.	1812	De Witt, Simeon,	461
Coleridge, Lord,	2005	D'Aligny, H. F. Q.	1668	Dick, Alexander,	190
Coles, Edward,	1097	Dallas, Alex. J.	555	Dick, James,	218
Collin, Nicholas,	488	Dallas, George M.	1125	Dickerson, Mahlon,	719
Collins, Zacheus,	697	Dalman, J. W.	938	Dickinson, James,	82
Collyer, Wm. Bengo,	893	Dana, James D.	1354	Dickson, John,	8
Colwell, Stephen,	1265	D'Angeville,	379	Dickson, Samuel,	2013

Dickson, S. H.	1410	Eberle, John,	832	Fisher, William R.	1129
Dillingham, W. H.	1187	Eckert, Geo. N.	1295	Flint, Austin,	1900
Dixon, Jeremiah,	174	Eckfeldt, Jacob B.	1917	Flint, Austin, Jr.	1901
Dobson, Judah,	1116	Eckfeldt, Jacob R.	1204	Flores, Jos. Mig. de,	499
Dohrn, C. A.	1344	Eddy, Henry T.	1825	Flourens, M.	911
Dolland, Peter,	294	Edwards, Bryan,	316	Flower, Wm. Henry,	1621
Dolley, Charles S.	2108	Edwards, Enoch,	480	Flügel, J. G.	1312
Donner, Otto,	2089	Elam, Samuel,	644	Foggo, Edward A.	1875
Doolittle, Charles L.	1946	Elder, Wm.	1692	Fontana, Abbè,	365
Dorr, Benjamin,	1147	Eldridge, Samuel,	144	Fooks, Paul,	137
Dorsey, John Syng,	780	Eliot, Charles W.	1686	Forbes, John,	1117
Doucette, De la,	1164	Ellet, Charles, Jr.	1182	Forchhammer,	1445
Douglas, James,	1839	Ellicot, Andrew,	399	Forest, A. R. de la,	559
Downes, John,	1190	Ellicott, Joseph,	272	Foronda, Valent de,	675
Drake, Daniel,	825	Elliot, Rev. Mr.	199	Forster, J. Reinhold,	579
Draper, Daniel,	1924	Elliot, Samuel,	164	Forstrom, John Eric,	725
Draper, Henry,	1837	Elliot, Stephen,	835	Fothergill, Anthony,	558
Draper, John W.	1194	Ellis, John,	317	Fothergil, John,	264
Drayton, W.	1047	Elmer, Jonathan,	321	Foulke, John,	384
Drinker, Henry,	240	Elwyn, A. L.	1192	Foulke, W. Parker,	1357
Drinker, John,	246	Emerson, Gouvern'r,	1030	Foxcroft, John,	16
Drown, Thomas M.	1787	Emerson, Ralph W.	1568	Foxcroft, Thomas,	226
DuBois, Patterson,	1918	Emlen, George,	935	Fox, George,	383
DuBois, W. E.	1205	Emmet, John P.	1086	Fox, Joseph,	81
Dubourg,	332	Emmons, S. F.	1981	Fox, Robert W.	1136
Dubourg, William,	715	Encke, J. F.	1098	Fraley, Frederick,	1170
Duc, Viollet le,	1774	Endlicher, Stephen,	1166	Fraley, Joseph C.	1912
Ducatel, Julius T.	1068	Engelmann, George,	1470	Francis, James B.	1551
Duché, Jacob,	236	Ericsson, John,	1845	Francis, J. W.	1196
Duché, Jacob,	51	Eschricht, D. F.	1511	Frank, J. Peter,	803
Dudley, Chas. Benj.	1878	Espy, James P.	1039	Frank, Leonard G.	1785
Dudley, Thomas H.	1921	Etting, Frank M.	1799	Franklin, Benjamin,	1
Duffield, Benjamin,	427	Evans, Cadwalader,	3	Franklin, William,	13
Duffield, Edward,	71	Evans, David,	153	Franklin, William T.	422
Duffield, George,	344	Evans, Edmund C.	1405	Frauenfeld, G. Von,	1650
Duffield, Samuel,	124	Evans, John,	1943	Frazer, John F.	1160
Duhail, Louis Etien,	614	Evans, Rowland,	207	Frazer, John F.	1580
Dulaney, Daniel,	67	Eve, Oswald,	19	Frazer, Persifor, Jr.	1695
Dumas, J. B.	1432	Everett, Alexander,	1002	Frazer, Robert P.	1716
Dumeril, Constant,	761	Everett, Edward,	999	Freire, Cypr. Ribero,	608
Dümichen, Johannes,	1615	Ewing, John,	38	Frerichs, F. T.	1476
Dunbar, William,	650	Eyries, J. B. B.	1140	Friebis, George,	2171
Duncan, Andrew,	312			Frieze, Henry S.	2018
Duncan, Louis,	2063	Falberg, Samuel,	654	Froude, J. A.	1459
Dundas, James,	1290	Famitz, Professor,	188	Fulton, John,	1739
Dundonald, Earl of,	587	Faraday, Michael,	1118	Fulton, Robert,	732
Dunglison, Robley,	1012	Farnum, Jos. W.	1273	Furness, Horace How-	
Dunlap, John,	381	Farmer, Ferdinand,	118	ard,	1914
Dunlap, Thomas,	1076	Favre, Alphonse,	2153	Furness, Wm. H.	1130
Dunn, Nathan,	1056	Fayette, Marq. de la,	356	Fuss, Nicholas,	823
Dunning, George F.	1573	Featherstonhaugh, G.	730		
Du Ponceau, J. M.	898	Felton, Samuel M.	1341	Gabb, William M.	1608
Du Ponceau, Pet. S.	551	Ferguson, James,	268	Gage, General,	119
Dupont, Edouard,	1727	Ferguson, William,	535	Gale, Benjamin,	24
Dupont, La Motte,	1690	Ferrer, J. J. de,	661	Gallatin, Albert,	532
Dupont, Iréné,	720	Feutry, M.	441	Galloway, Joseph,	5
Dupont, S. F.	1469	Field, Henry Wm.	1370	Galvez, Mariano,	1063
Durand, Elias,	1347	Filstead, Samuel,	286	Gamble, Archibald,	376
Duruy, Victor,	2086	Findley, William,	505	Garbier, Hubert,	440
Dutton, Clarence E.	1679	Finley, Clement A.	1375	Garden, Alexander,	11
Dworjak, Charles,	1327	Fischer, Alex.	1324	Gardner, Valentine,	238
		Fisher, Joshua Fr.	1029	Gardoqui, Diego de,	487
Earle, Pliny,	1560	Fisher, S. G.	1417	Gardoqui, Francis de,	519
Easton, Morton W.	2105	Fisher, Thomas,	178	Garnet, John,	676

Garrett, Philip C.	1988	Grant, Ulysses S.	1601	Hall, Marshall,	1323
Garrison, Joseph F.	2014	Grassi,	593	Hallowell, Benj.	1336
Gastellier,	435	Gray, Asa,	1239	Hallowell, Ed.	1288
Gaston, William,	806	Gray, Elisha,	1851	Hamilton, Alex.	526
Gates, Merrill Edwards,	2079	Gray, George,	388	Hamilton, James,	53
Gatschet, Albert S.	2015	Gray, Isaac,	360	Hamilton, William,	633
Gauld, Geo.	314; see 270	Gray, James,	786	Hamilton, W. J.	1456
Gauss, C. F.	1309	Green, Ashbel,	504	Hammond, Wm. A.	1412
Geddings, E.	1252	Green, Traill,	1605	Harden, John W.	1746
Geikie, Archibald,	1897	Green, W. H.	1504	Harding, George,	1337
Geikie, James,	1803	Greene, William H.	1880	Harding, Rev. Mr.	92
Genth, Fred. A.	1339	Greenleaf, Simon,	1242	Hare, Charles W.	788
Genth Frederick A.	2067	Greenway, James,	583	Hare, J. I. Clark,	1172
George, Sidney,	192	Gregorio, Antonio di,	2155	Hare, Robert, Jr.	677
Gerard,	342	Gregory, Henry D.	2159	Harlan, Richard,	873
Gerhard, Benjamin,	1346	Grier, Robert C.	1241	Harris, Joseph S.	2136
Gerhard, W. W.	1176	Griffith, Robert E.	948	Harris, Levett,	858
Gibbes, George,	743	Griffith, T. W.	1079	Harris, Robert P.	1385
Gibbons, Thomas,	339	Griffitts, Samuel P.	400	Harris, Thomas,	947
Gibbs, O. Wolcott,	1355	Grigsby, Hugh B.	1384	Harris, William,	1084
Gibson, James,	726	Grimaldi Ceva,	1229	Harrison, George L.	2031
Gibson, John B.	859	Grimm, Jacob,	1483	Harrison, Joseph,	168
Gibson, William,	848	Grinnell, Henry,	1321	Harrison, Joseph,	1536
Gill, John,	202	Griscom, John,	1057	Harrison, Peter,	169
Gill, Theodore Nich.	1587	Griscom, William W.	1939	Hart, Jas. Morgan,	1827
Gillis, J. Melville,	1237	Grivel, M.	436	Hart, John S.	1207
Gilman, Daniel C.	1800	Gröberg di Hemso, J.	927	Hartman, John F.	1813
Gilmor, Robert, Jr.	686	Grosche, John Gottl.	542	Hartshorne, Edward,	1403
Gilpin, Henry D.	1009	Gross, Samuel D.	1342	Hartshorne, H.	1510
Gilpin, Joseph,	273	Gross, Samuel W.	2043	Hartshorne, Joseph,	783
Gilpin, Joshua,	688	Grote, Augustus R.	1815	Harvey, W. H.	1431
Gilpin, Thomas,	247	Gruner, Louis,	1645	Hassler, Ferd. Rud.	723
Gilpin, Thomas,	776	Guald, George,	270, 314	Hauer, Franz Ritter	
Giraldes, J. P. C. de,	940	Gubernatis, Angelo de,	2090	Von,	1764
Girardin, L. H.	830	Guichen, Count de,	398	Haupt, Hermann,	1681
Gladstone Wm. Ewart,	1950	Guillelard, John,	630	Haupt, Lewis M.	1862
Glentworth, George,	215	Guillou, Constant,	1353	Haven, S. Foster,	1549
Gloucester, Arch.	287	Guizot, Fran. P. G.	1142	Hawes, William,	703
Gloxin, Benjamin,	536	Gummere, John,	778	Hayden, F. V.	1416
Goddard, Paul B.	1132	Gummere, Samuel J.	1596	Hayes, I. I.	1493
Goddard, Kingston,	1394	Gutzlaff, Charles,	1113	Hayes, R. Somers,	2082
Godman, John D.	915	Guyot, Arnold,	1584	Hays, Isaac,	986
Godon, Silvain,	735			Hays, I. Minis,	2071
Goldsborough, Robert,	538			Hazard, Ebenezer,	357
Goldsmith, M.	1882	Haeckel, Ernest,	2054	Hazlehurst, Henry,	2165
Gonzales, Francis A.	1004	Hagan, Hermann A.	2066	Hazlehurst, Isaac,	1278
Good, John Mason,	749	Hagert, H. S.	1782	Heckewelder, John,	626
Goode, George Brown,	2162	Hahn, John David,	266	Heer Oswald,	1464
Goodell, William,	1835	Haidinger, William,	1360	Heilprin, Angelo,	1985
Goodfellow, Edw.	1680	Haighton, John,	747	Helmholtz, H.	1734
Goodsir, John,	1259	Haines, John S.	1743	Helmuth, Just. H. C.	377
Goodwin, D. R.	1435	Haines, Reuben,	768	Hembel Wm., Jr.	769
Göppert, H. R.	1454	Hakakian Bey, T.	1609	Henderson, A. A.	1473
Gorringe, Henry H.	1940	Haldeman, S. S.	1208	Henry, Joseph,	1045
Gougain, Theo. M.	1729	Hale, Charles,	1558	Henry, Thomas,	451
Gould, A. A.	1262	Hale, Edw. Everett,	1658	Henry, William,	149
Gould, Ben. A., Jr.	1271	Hale, Horatio,	1709	Hermelin, Baron,	392
Gowen, Franklin B.	1823	Hall, Asaph,	1853	Herschel, John,	1332
Graeff, Frederick,	1599	Hall, Chas. Edward,	1795	Herschel, William,	404
Greame, Thomas,	18	Hall, David,	73	Hewson, Thomas F.	660
Graham, James D.	1139	Hall, James,	1356	Hewson, William,	234
Granchain, Chev. de	445	Hall, John E.	770	Heynitz, Baron de,	495
Grandpré, J. M. de,	599	Hall, Lyman B.	2027	Heywood, Thos., Jr.	389

Hicks, Gilbert,	122	Humphreys, H. C.	1843	Johnston, John,	1810
Hilgard, J. E.	1497	Humphreys, Joshua,	512	Jomard,	974
Hill, H. Andrews,	1963	Humphreys, Samuel,	922	Jones, Charles C.	1942
Hill, Henry,	277	Hunfalvy, Paul,	2116	Jones, Isaac,	84
Hill, Thomas,	1501	Hunt, J. Gibbons,	1798	Jones, Joel,	1245
Hillegas, Michael,	176	Hunt, T. Sterry,	1441	Jones, John,	260
Hilprecht, Herman V.	2110	Hunter, John,	475	Jones, John,	323
Himes, C. Francis,	1768	Huntingdon, Samuel,	363	Jones, Robt. Strettell,	85
Himili, John,	224	Hupsch, Baron de,	523	Jones, Thomas P.	996
Hirn, G. A.	2133	Hutchins, Joseph,	223	Jones, Walter,	319
Hitchcock, Chas. H.	1663	Hutchins, Thomas,	293	Jones, William,	659
Hitchcock, Edward,	1154	Hutchinson, James,	343	Jones, Capt. William,	701
Hochstetter, Franz		Hutchinson, James H.	2016	Jordan, Francis, Jr.	2017
Von,	1649	Huxley, Thomas W.	1623	Julien, Marc A.	992
Hockley, Richard,	104	Hyrtl, Joseph,	1426	Julien, Stanislaus,	1189
Hockley, Thomas,	2040			Justice, George M.	1105
Hodge, Hugh,	598	Ingenhausz,	434		
Hodge, Hugh L.	1016	Ingersoll, Charles J.	785	Kane, Elisha K.	1289
Hodge, J. T.	1524	Ingersoll, Jared,	362	Kane, Elisha Kent,	1989
Hodgson, William B.	985	Ingersoll, Joseph R.	919	Kane, John K.	914
Hoffman, Walter J.	2160	Ingersoll, Ralph I.	1249	Kane, Thomas L.	1373
Hofmann, William,	1453	Ingham, Samuel D.	1124	Kasem Beg, A.	1443
Hoge, John,	533	Ingham, Wm. A.	1773	Kaup, J. J.	1458
Hoge, Jonathan,	420	Irving, David,	1144	Keane, John J.	2169
Holbrook, John Ed.	1094	Irving, Washington,	967	Kearsly, John, Jr.	210
Holiday, Henry,	107	Izard, George,	724	Kearsly, John, Sr.	90
Holland, Capt.	338	Izard, Ralph,	198	Keating, William H.	879
Holland, Henry,	1223			Keating, William V.	1348
Holland, James W.	2068	Jackson, David,	564	Keen, William W.	2021
Hollingsworth, Levi,	249	Jackson, Isaac R.	1151	Keim, George DeB.	1962
Hollingsworth, S. L.	1379	Jackson, James,	822	Keller, Frederick,	1513
Holmes, Abiel,	792	Jackson, R. M. S.	1517	Kelley, William D.	*1991
Holmes, Oliver W.	1898	Jackson, Samuel,	884	Kendall, E. Otis,	1161
Holyoke, Edward,	110	Jacobs, Benjamin,	183	Kenderdine, R. S.	1769
Hooker, Joseph D.	1624	Jacobs, William S.	670	Kennedy, John P.	1318
Hooker, Nathaniel,	126	Jäger, George,	1429	Kent, James,	965
Hooker, William,	1457	Jahn, Gust. Adolph,	1240	Kent, William,	1243
Hopkins, Stephen,	167	James, Abel,	175	Kerr, Wm. C.	1689
Hopkins, William,	133	James, Edmund J.	2010	Kidd, John,	12
Hopkinson, Francis,	10	James, Edwin,	1024	Kiepert, Henri,	2118
Hopkinson, John P.	1010	James, Hugh,	401	Kiernan, Francis,	1261
Hopkinson, Joseph,	787	James, John F.	1235	King, Charles W.	1956
Hopper, Edward,	1652	James, Joseph,	456	King, Clarence,	1708
Hormayer,	845	James, Thomas C.	619	King, Edward,	1294
Horn, George H.	1607	James, Thomas P.	1388	Kinnersly, Ebenezer,	55
Horner, Inman,	2070	Jameson, David,	200	Kirchhoff, G.	1525
Horner, William E.	843	Jamaineau, Isaac,	159	Kirkbride, Joseph,	113
Horsfield, Thomas,	977	Jandennes, Jos. de,	615	Kirkbride, T. S.	1269
Horsford, E. N.	1257	Jannet, Claudio,	1933	Kirke, John F.	1537
Hosack, David,	746	Jardine, Wm.	1221	Kirkwood, Daniel,	1285
Hotchkiss, Jedediah,	1941	Jarvis, Edward,	1496	Kirtland, Jared P.	1771
Hough, Franklin B.	1959	Jarvis, Samuel F.	849	Kirwan, Richard,	446
Hough, George W.	1696	Jay, John,	464	Kittera, John W.	576
Houston, Edwin J.	1698	Jayne, Horace,	2049	Klaproth, Julius,	901
Houston, Henry H.	2143	Jefferson, Thomas,	345	Klingstedt, Baron de,	301
Hovelacque, Abel,	2084	Jefferis, William W.	1954	Kneass, Strickland,	1369
Howell, Joshua,	132	Jenks, William,	1072	Knight, Jacob B.	1865
Hubbard, J. S.	1302	Jenner, Edward,	693	Knox, Henry,	544
Huck, Richard,	219	Johnson, William,	120	Kolbe, Hermann,	1750
Humboldt, Alex. Von,	695	Johnson, William,	150	König, George A.	1767
Humboldt, Wm. Von,	868	Johnson, W.	744	Kopp, Hermann,	1971
Humphreys, A. A.	1397	Johnston, Francis,	455	Kosciuszko, Thad.	493
Humphreys, David,	687				

Krauss, Frederick S.	2167	Lesley, Peter,	1382	Lukens, Isaiah,	850
Krauth, Ch. P.	1541	Leslie, Charles R.	1068	Lukens, Jesse,	290
Krusenstern, A. J.	904	Leslie, Robert,	590	Lukens, John,	4
Kuhn, Adam,	48	Lesquereux, L.	1436	Lusac, John,	545
Kuhn, Hartman,	1127	Leseuer, Charles A.	797	Luzerne, Chev. de la,	347
Kunze, John C.	346	Lesseps, Mathieu,	853	Lyell, Charles,	1162
Kupffer, A. T.	1230	Letchworth, A. S.	1376	Lyman, Benj. Smith,	1629
		Letombe,	669	Lynch, W. F.	1317
Labouderie, M. J.	1026	Letsom, John C.	470		
Lacordaire, Theo.	1377	Levasseur, Emil,	2085	MacAlister, James,	2107
Lambert, Guillaume,	1604	Le Veillard,	439	Macfarlane, James,	1982
Landreth, Burnet,	1858	Leverrier, U. J.	1231	Maclean, John,	698
Lane,	292	Levis, Richard J.	1706	Maclure, William,	646
Langles, Lewis M.	828	Lewis, Elisha J.	1363	Macneven, Wm. J.	896
Langley, Samuel P.	1781	Lewis, Francis W.	1415	Macquer, M.	334
Lanjuinais, Count,	834	Lewis, Henry Carvill,	1931	Madison, James,	406
Lapham, Increase A.	1749	Lewis, Joseph J.	1930	Madison, J.	350
La Roche, C. Percy,	1721	Lewis, Merewether,	685	Magaw, Samuel,	371
La Roche, René,	933	Lewis, Samuel S.	1953	Magee, Christian,	116
Larocque, A. J.	610	Leyburn, John,	1383	Magellan, John H. de,	390
Larrey, Baron,	1007	Liancourt, F. A. F. de		Mahon, Lord,	311
Lartét, Edouard,	1618	la R.	597	Mahon, Lord,	1350
L'Asteyrie, C. P.	728	Linant Pasha,	1610	Maine, Henry Sumner,	2113
Latreille, P. A.	838	Lindley, John,	1465	Maisch, John M.	1994
Latrobe, Benj. H.	645	Linné, Charles á,	263	Malézieux, Émile,	1935
Latrobe, John H. B.	1311	Liouville, J.	1311	Mallery, Garrick, Jr.	1970
Laurens, Henry,	298	Lippincott, Joshua B.	1633	Mallet, John W.	2042
Lauth, Franz Jos.	1711	Liston, Robert,	647	Mandrillon, Joseph,	402
Laval, John,	909	Livezey, Thomas,	243	Mansfield, Ira F.	1847
Lavoisier,	336	Livingston, Edward,	917	Mansfield, Jared,	795
Law, Edward E.	1316	Livingston, Robt. R.	658	Marbois, Barbé de,	348
Law, Philip H.	1879	Livingston, William,	98	March, Francis And.	1857
Lawes, John Bennett,	1974	Llave, Pablo de la,	923	Mariette Bey, Aug.	1611
Lawrance, J. O'B.	887	Lloyd, Humphrey,	1100	Marks, William D.	1861
Lawrence, William,	894	Lloyd, James,	275	Marsden, William,	846
Lea, Henry Chas.	1595	Locke, John,	1199	Marsh, B. V.	1523
Lea, Isaac,	953	Lockyer, Joseph N.	1756	Marsh, George P.	1258
Lebert, H.	1460	Logan, George,	575	Marsh, O. C.	1604
Le Comte, M. F. H.	603	Logan, William,	44	Marshall, Frederick,	288
Le Conte, John,	1287	Logan, William, Jr.	121	Marshall, Humphrey,	182
Le Conte, John,	1738	Logan, W. E.	1427	Marshall, John,	981
Le Conte, John L.	1315	Lombardini, Elia,	1398	Marshall, John,	2078
Le Conte, Joseph,	1737	Long, Stephen H.	895	Martin, Alexander,	632
Lee, Arthur,	68	Longchamps, Baron		Martindale, Isaac C.	1922
Lee, Francis,	128	Selys de,	1728	Martinez, de la R. F.	1138
Lee, T. J.	1477	Longfellow, S.	1874	Martinez, Juan J.	1018
Leemans, Conrad,	2125	Longstreth, Morris,	1872	Martini, Lorenzo,	990
Legaré, Hugh S.	1087	Longstreth, M. F.	1255	Martins, Charles,	1885
Le Gaux, Peter,	520	Loomis, Elias,	1114	Mártius, C. Fr. Ph.	1359
Lehman, Ambrose E.	1986	Lorich, Severin,	907	Maskelyne, Nevil,	285
Leidy, Joseph,	1263	Lorimer, John,	257	Mason, Andrew,	1572
Le Moine, J. M.	2174	Lorin, Theodore,	1015	Mason, Charles,	151
Lenhossek, Josef von,	2055	Louis Philippe,	995	Mason, John Y.	1232
Lenox, James,	1351	Lovenorn, Paul de,	890	Matile, George A.	1372
Lenthall, John,	1179	Lovering, Joseph,	1926	Matlack, Timothy,	349
Leopold II, Grand		Lowell, James Russell,	1977	Mauzy, M. F.	1307
Duke,	1174	Lowell, John,	467	Maximilian, Prince,	1214
Lepsius, Richard,	1222	Lowrie, Walter H.	1407	Maxwell, Jas. Clerk,	1794
Lerebours, Alex.	609	Lubbock, John,	2019	May, Addison,	1929
Le Roux,	333	Ludlam, William,	308	May, Joseph,	1979
Le Roy,	432	Ludlow, James R.	1998	Mayer, Alfred M.	1654
Le Roy,	302	Ludlow, John,	1102	McArthur, John, Jr.	1775
Lesley, Joseph,	1520	Ludlow, William,	2003	McCall, George A.	1340

McCall, Peter,	1279	Mitchell, Maria,	1640	Nairne, Edward,	267
McCauley, Edward Y.	1928	Mitchell, O. M.	1313	Nancarrow, John,	585
McCleane, Archibald,	295	Mitchell, S. L.	537	Napier, John T.	2074
McClune, James,	1507	Mitchell, S. W.	1461	Nassy, David,	574
McClurg, James,	320	Mommsen, Theodor,	1735	Naumann, Carl F.	1648
McCosh, James,	1685	Monier-Williams,		Navarrete, Mart F.	1003
McCreath, And. S.	1888	Monier,	2114	Naxera, Manuel,	1053
McCulloch, Rich. S.	1228	Monro, George,	514	Neill, John,	1300
McDowell, John,	722	Montgery, M. de,	854	Nemours, Dupont de,	653
McEuen, Charles,	1186	Montessor, John,	297	Neufville, Hyde de,	960
McEuen, Thomas,	983	Moore, Charles,	9	Newberry, J. S.	1575
McHenry, James,	405	Moore, Gideon E.	1791	Newcomb, Simon,	1852
McIlvaine, William,	926	Moore, James W.	2029	Newenham, Edward,	468
McKean, Joseph B.	902	Moore, Samuel,	704	Newnam, John,	621
McKean, Thomas,	88	Moore, Samuel,	313	Newton, Hubert A.	1582
McKean, Wm. V.	1821	Moore, Samuel P.	283	Nichols, Francis,	683
McLane, Louis,	1000	Moore, Thomas,	739	Nichols, Starr Hoyt,	1703
McMaster, John Bach,	2004	Mordecai, Alfred,	1319	Nicholson, John,	546
McMichael, Morton,	1586	Morehouse, Geo. R.	1841	Nicklin, Philip H.	964
McQuillen, J. H.	1833	Morell, John,	269	Nicola, Lewis,	179
Meade, Geo. G.	1678	Morelli, Chevalier,	1054	Nicollet, J. N.	1163
Meade, William,	796	Morgan, Benjamin,	327	Niemcewicz, Jul. W.	638
Mease, James,	672	Morgan, Benj. R.	762	Nikitin, Serge,	2060
Meehan, Thomas,	1677	Morgan, George,	177	Nilsson, Sven,	1627
Meek, F. B.	1583	Morgan, John,	148	Noel,	444
Meigs, Charles D.	925	Moriniere, N. de la,	817	Nordenskiold, A. E.	1805
Meigs, J. Forsyth,	1293	Morlot, A.	1521	Nordmark, Zach.	874
Meigs, Josiah,	818	Morris, Caspar,	1276	Norris, Geo. W.	1209
Meigs, Mont. C.	1335	Morris, Elwood,	1181	Norris, Isaac, Jr.	1712
Melanderhjelm, D.	681	Morris, Jacob G.	1282	Norris, Joseph P.	789
Melito, Miot de,	920	Morris, John,	428	Norris, William,	1082
Melscheimer, Valen.	592	Morris, John, Jr.	156	Norris, William F.	2106
Meltzel, Hugo Von,	2115	Morris, J. Cheston,	1976	North, Edward,	2046
Meneghini, Giuseppe,	2145	Morris, Robert,	419	Norton, W. A.	1195
Mercer, Charles F.	807	Morse, Sam. F. B.	1256	Nulty, Eugenius,	809
Mercer, Hugh,	162	Morton,	274	Nuttall, Thomas,	812
Meredith, William,	766	Morton, Henry,	1577		
Meredith, Wm. M.	1075	Morton, Henry J.	1391	Oberlin, John Fr.	196
Merrick, Jno. Vaughan,	1903	Morton, Samuel G.	950	Odell, Jonathan,	160
Merrick, Samuel V.	1036	Mosely, Benjamin,	341	Oersted, Hans C.	959
Merriman, Mansfield,	1947	Motley, J. L.	1437	Okely, John,	186
Messchert, Math. H.	1744	Mower, T. G.	1198	Oliver, And.	172
Michaelis, Chris. F.	408	Mozard, T. C.	623	Oliver, And.	303
Michaux, F. Andre,	742	Much, Matthæus,	2121	Oliver, Charles A.	2072
Miffin, John F.	600	Mueller, Friederich,	2120	Oliver, James E.	1715
Miffin, Samuel,	72	Muenter,	978	Olrick, Christian,	1380
Miffin, Thomas,	154	Mühlenberg, F. A.	1866	Olsen, Peter B.	668
Miles, Samuel,	205	Mühlenberg, Henry,	407	Ord, George,	811
Mill, John Stuart,	1594	Müller, John,	1224	Osborn, Henry F.	2135
Milledoler, Philip,	1121	Müller, Max,	1486	Osborn, H. Stafford,	1581
Millegan, George,	300	Muoni, Damiano,	1892	Osler, William,	2039
Millegan, Robert,	457	Murchison, Sir R. I.	1418	Otis, George A.	860
Miller, Edward,	1219	Murdock, Joseph B.	2062	Otolenge, Joseph,	284
Miller, Edward,	699	Murgatroyd, John,	232	Otto,	255
Miller, E. Spencer,	1396	Murray, Andrew,	552	Otto, John C.	800
Miller, Francis B.	1693	Murray, James A. H.	1937	Otto, Lewis William,	463
Miller, J. Imbrie,	1671	Murray, John,	827	Outerbridge, Alex. E.	1916
Miller, Peter,	181	Murray, Joseph A.	1913	Owen, P. Cunliff,	1801
Miller, Samuel,	652	Mustoxidi,	1184	Owen, Richard,	1212
Milne-Edwards, H.	1421	Mutter, T. D.	1275		
Mim,	239			Packard, A. S., Jr.	1868
Minto, Walter,	502	Nadaillac, Marquis de,	2087	Packard, J. H.	1578
Mitchell, John K.	942	Nagy, Charles,	1027	Page, Mann,	410

Paget, James,	1331	Pepper, William,	1666	Proud, Robert,	80
Paine, Robert T.	1085	Perceval, Robert,	412	Pryor, Thomas,	50
Paine, Thomas,	411	Percival, Thomas,	450	Pugh, Evan,	1472
Pallas, Peter Simon,	553	Perkins, Jacob,	836	Pulzsky, Francis,	2088
Palmer, Wm. R.	1409	Perkins, John,	324	Pumpelly, Raphael,	1758
Palmieri, Luigi,	1733	Peter, Robert,	1705	Purviance, Sam., Jr.	91
Pancoast, Jos.	1281	Peter, William,	1155		
Pancoast, William H.	1984	Peters, C. H. F.	1855		
Pardee, Ario,	1593	Peters, Richard,	89	Quadrada, F. de P.	973
Parieu, Esquiron de,	1673	Pettit, Charles,	351	Quaranta, Bern.	1143
Park, Roswell,	1152	Peyrolan, Francisco,	662	Quetelet, A.	1099
Parke, Thomas,	328	Phillips, Henry, Jr.	1824	Quincy, Edmund,	1614
Parker, William,	409	Phillips, Henry M.	1676	Quincy, Josiah,	966
Parkes, Samuel,	871	Phillips, John,	1625		
Parr, William,	278	Physic, Edmund,	131		
Parrish, Dilwyn,	1987	Physic, Philip S.	673	Rafn, Carls Chris.	961
Parrish, Joseph,	784	Pickering, Charles,	949	Raguet, Condy,	878
Parvin, Theophilus,	2036	Pickering, John,	856	Ramirez, Alexander,	650
Paschall, Isaac,	130	Pickering, Timothy,	589	Ramsay, A. C.	1448
Paschall, John,	203	Picot, Charles,	1251	Ramsay, David,	684
Paschall, Joseph,	135	Pictet, F. J.	1526	Rand, B. Howard,	1392
Paschall, Stephen,	201	Pierce, C. Newlin,	1859	Rand, Theodore D.	1736
Pasteur, Louis,	2056	Pinckney, C. C.	503	Randall, F. A.	1849
Patterson, Carlile P.	1910	Pinckney, Thomas,	629	Randolph, Edmund,	527
Patterson, C. Stuart,	2035	Pine, Robert Edge,	426	Randolph, Jacob,	1028
Patterson, Robert,	368	Planté Gaston,	1967	Randolph, Nathaniel A.	2022
Patterson, Robert,	1283	Platt, Franklin,	1760	Randolph, Thos. M.	580
Patterson, Robert M.	738	Platzmann Julius,	2127	Ranke, Leopold von,	2058
Patterson, Thos. L.	1320	Plitt, John,	881	Rask, R. K.	969
Patterson, Wm.	501	Poinsett, Joel R.	932	Rath, Gerhard vom,	2026
Patterson, Wm.	636	Pole, Thomas,	509	Rau, Charles,	1969
Paulding, James K.	1101	Poletica, Peter,	862	Rawle, William,	429
Paykull, Gustavus,	655	Pollok, George,	760	Rawle, William,	1146
Peace, Prince of,	690	Pomialowsky, John,	2053	Rawle, William H.	2139
Peacock, George,	1171	Pool, William,	208	Rawlins, Charles E.	1961
Peale, Charles W.	425	Porter, T. C.	1539	Rawlinson, George,	1644
Peale, Franklin,	1035	Post, Frederick,	185	Rawson, Rawson W.	1765
Peale, Titian R.	1034	Postgate, J. P.	2097	Rayleigh, Lord,	2099
Pearse, John B.	1772	Potter, Alonzo,	1200	Raymond, R. W.	1784
Pearson, Alexander,	903	Potts, Jonathan,	216	Raynall,	335
Pearson, James,	141	Potts, Thomas,	93	Raynolds, Wm. F.	1585
Pease, Calvin,	1508	Potts, William John,	2044	Read, John M.	1495
Peck, Wm. D.	606	Pouchet, F. A.	1254	Read, J. Meredith,	1591
Pedersen, P.	870	Pougens, Charles,	972	Reade, Charles,	21
Peirce Benjamin,	1173	Poussin, Wm. Tell,	1216	Reade, Joseph,	103
Pemberton, Henry,	1722	Powel, Samuel,	142	Real, Count,	912
Pemberton, Israel,	42	Powel, Samuel,	1362	Redfield, W. C.	1197
Pemberton, James,	49	Powell, J. W.	2161	Redick, David,	486
Peñafiel, Antonio,	2104	Prescott William H.	1092	Redman, John,	7
Penington, Edward,	237	Preston, Thomas,	280	Reed, Henry,	1081
Penington, Edward,	729	Prestwich, Joseph,	1619	Reed, Henry,	2077
Penington, Edward,	1777	Price, Eli K.	1352	Reed, John,	1246
Penington, John,	549	Price, J. Sergeant,	1592	Reed, Joseph,	791
Penington, John,	1109	Price, Richard,	413	Reed, T. B.	1842
Penn, Granville,	1060	Prichard, James C.	1069	Reed, William B.	1374
Penn, John,	52	Priestly, Joseph,	414	Reese, John J.	1301
Penn, Richard,	59	Prime, Ebenezer,	259	Reeves, Samuel J.	1631
Pennant, Thomas,	543	Prime, Frederick,	1780	Regnault, Victor,	1361
Pennypacker, Samuel		Prince, John,	700	Reid, Lt. Col. Wm.	1177
W.	2073	Prinsep, James,	1093	Reinwardt, C. G. C.	1052
Penrose, R. A. F.	1518	Proctor, Richard A.	1757	Remsen, Ira,	1889
Pepper, Edward,	2059	Proctor, Wm., Jr.	1234	Remusat, J. P. Abel,	979
Pepper, William,	1277	Prosperin, Eric,	682	Renan, Ernest,	1485

Renard, A.	1948	Rozier,	337	Sellers, John,	17
Renard, Charles,	1343	Rudder, William,	1871	Sellers, W.	1533
Reneyiers, E.	1890	Rumford, Count,	678	Selwyn, Alfred R. C.	1770
Renwick, James,	956	Rumker, Charles,	1111	Séguard, E. Brown,	1333
Reuleaux, F.	1816	Rumsey, James,	513	Sergeant, John,	763
Reville, Albert,	2122	Rumsey, William,	106	Sergeant, Jona D.	387
Reynell, John,	56	Ruschenberger, W. S.		Sergeant, Thomas,	1014
Reynolds, Joel B.	1268	W.	1264	Sergi, Giuseppe,	2057
Rezius, John And.	758	Rush, Benjamin,	163	Sève de Bar, Edouard,	1965
Rhea, John,	83	Rush, James,	941	Sewell, Jonathan,	987
Rhoads, Edward,	1600	Rush, Richard,	801	Seybert, Adam,	620
Rhoads, Samuel,	30	Ruston, Thomas,	459	Seybert, Henry,	900
Rhoads, Samuel, Jr.	279	Rüttimeyer, Carl L.	1620	Shaler, William,	930
Richards, Benj. W.	1103	Ryder, John A.	2109	Sharp, Benjamin,	2076
Richardson, B. W.	1500			Sharples, Philip P.	1944
Richardson, Joseph,	58	Sabine, Edward,	1150	Sharples, Stephen P.	1960
Riché, George I.	2037	Sadtler, Samuel P.	1766	Sharpless, Isaac,	2002
Richmond, Duke of,	469	Sajous, Charles E.	2148	Sharswood, George,	1286
Ridgley, Charles,	139	Sakharoff, Bazile,	1325	Sheafer, P. W.	1514
Riley, Charles V.	1808	Salazar, José Maria,	946	Sheppard, Furman,	1792
Rittenhouse, Benj.	508	Sanchez, Jesus,	2103	Sherwood, Andrew,	1797
Rittenhouse, David,	40	Sandberger, Fridolin,	1563	Shields, Charles W.	1822
Rives, William C.	1001	Sanderson, John,	1137	Shiell, Hugh,	359
Roberts, George,	155	Sandiford,	111	Shippen, Edward,	87
Roberts, George B.	2038	Sansom, Joseph,	714	Shippen, Edward,	1598
Roberts, Hugh,	41	Santarem, Viscount,	1033	Shippen, Edward, Jr.	39
Roberts, Joseph,	968	Sargent, Charles S.	1958	Shippen, Joseph, Jr.	45
Roberts, Sol. W.	1180	Sargent, Winthrop,	515	Shippen, Thos. Lee,	578
Roberts, W. Milnor,	1814	Saussure, Henri de,	1730	Shippen, William,	33
Robins, James W.	1957	Saville, George,	187	Shippen, William, Jr.	34
Robinson, Moncure,	1025	Saxe Weimar, Duke of,	984	Shoemaker, Samuel,	262
Robinson, Samuel,	166	Saxton, Joseph,	1074	Short, Charles W.	1041
Rochehoucauld, de,	430	Say, Jean Baptiste		Short, William,	694
Roebuck, Jarvis,	664	Léon,	1699	Shumhard, B. F.	1574
Roenne, Baron de,	1159	Say, Thomas,	810	Shurtleff, Nath. P.	1389
Roeppe, W. T.	1674	Scandella, J. B.	637	Siebold, Carl T. E.	
Röhrig, F. L. O.	1462	Schaeffer, Fred. C.	841	Von,	1647
Rogers, E. P.	1364	Schäffer, George C.	1552	Siemens, Chas. W.	1829
Rogers, Fairman,	1390	Schele de Vere, M.	2045	Silliman, Benjamin,	706
Rogers, Henry D.	1038	Schimper, Wm. P.	1564	Silva Lisboa, J. da,	918
Rogers, James B.	1227	Schinz, C.	1532	Siméon, Rémi,	2124
Rogers, John R. B.	478	Schoolcraft, H. R.	1032	Simitiere, P. E. du,	171
Rogers, R. E.	1365	Schorlemmer, C.	1877	Simpson, J. Y.	1481
Rogers, William B.	1048	Schott, C. A.	1498	Six, James,	378
Rogers, William B., Jr.	1906	Schultze, Gottlob E.	877	Small, Alexander,	305
Rokitansky, K.	1479	Schumacher, H. C.	891	Smibert, Williams,	220
Rolleston, George,	1622	Schurz, Carl,	1864	Smilie, John,	531
Rollett, Hermann,	2050	Schwann, Theo.	1482	Smith, Albert H.	1873
Romans, Bernard,	315	Schweinitz, Lewis,	813	Smith, Aubrey H.	1414
Romanzoff, Nich. de,	908	Sclater, Philip L.	1725	Smith, Charles,	702
Rood, Ogden N.	1907	Scott, John Morin,	99	Smith, Charles E.	1402
Rose, H.	1428	Scott, John M.	782	Smith, Daniel B.	976
Rosny, Leon de,	1964	Scott, Lewis A.	1919	Smith, Edgar F.	2146
Ross, Andrew,	547	Scott, William B.	2112	Smith, F. Gurney,	1292
Ross, James,	529	Scudder, Samuel H.	1870	Smith, George,	1494
Ross, John,	60	Scull, William,	222	Smith, George W.	1135
Rossi, Giovanni B.	1732	Secchi, P. Angelo,	1413	Smith, Goldwin,	1544
Rothermel, Peter F.	1718	Sedgewick, A.	1419	Smith, Isaac,	228
Rothrock, J. T.	1838	Seidensticker, O.	1656	Smith, James E.	604
Rouelle, John,	562	Seiler, Carl,	1883	Smith, John,	22
Roume, Philip Rose,	671	Seiler, Emma,	1660	Smith, John R.	648
Roux de Rochelle,	1062	Sellers, Coleman,	1704	Smith, Jonathan B.	64
Roxburgh, William,	666			Smith, J. Lawrence,	1395

Smith, Lloyd P.	1740	Strong, William,	1559	Tilesius, Guill. T.	833
Smith, Rich. Peters,	602	Struve, F. G. W. de,	1328	Tilghman, Benj. C.	1688
Smith, Robert,	75	Struve, Henry de,	928	Tilghman, James,	43
Smith, R. S.	1534	Stuart, Charles,	500	Tilghman, Rich. A.	1233
Smith, Samuel,	102	Stuart, George,	1820	Tilghman, William,	707
Smith, Samuel,	415	Stuart, Moses,	899	Tilghman, Wm. M.	1657
Smith, Samuel H.	624	Studer, Benjamin,	1527	Tilton, James,	306
Smith, Stephen,	1789	Stuer, Dionys,	2093	Tocqueville, Al de,	1158
Smith, Thomas,	76	Sue, Jean Bapt., Jr.	416	Toppa, Robert N.	2065
Smith, Thos. Peters,	642	Sue, Monsieur,	352	Torombert, Honoré,	931
Smith, William,	565	Suess, Edward,	2094	Torrey, John,	1044
Smith, William,	97	Sullivan, William,	1083	Totten, George M.	1272
Smith, William,	36	Sullivant, W. S.	1471	Totten, Joseph G.	1061
Smith, Wm. Peartree,	101	Sully, Thomas,	1049	Towne, John H.	1266
Smith, William W.	484	Summerville, Mary,	1641	Townsend, Jos. B.	1597
Smyth, Albert H.	2141	Sumner, Charles,	1569	Townsend, Washing-	
Snowden, A. L.	1742	Survilliers, Count de,	889	ton,	1955
Snyder, Monroe B.	2009	Sussex, Duke of,	1019	Tracy, Destutt,	709
Sonnans, Peter,	214	Svanberg, Jons,	875	Trautwine, John C.	1206
Sonnenfels, Baron de,	804	Swartz, Olof,	710	Trego, Charles B.	1183
Soulavie, Abbé,	433	Swift, Joseph G.	775	Troost, Gerhard,	790
Southard, Samuel L.	998	Syle, E. W.	2023	Troughton, Edward,	802
Span, James,	217	Sylvester, J. J.	1844	Trowbridge, Wm. P.	1691
Sparman, Andrew,	525	Syng, Phillip, Sen.	35	Troyon, Fred.	1490
Spence, George,	473	Szombathy, Josef,	2092	Trumbull, Henry Clay,	2024
Spofford, A. H.	1720			Trumbull, John,	570
Stallo, John B.	1949	Tait, Charles,	936	Tschermak, Gustaf,	1973
Stanhope, Earl of,	310	Talcott, Andrew,	1078	Tucker, George,	1071
Stanley, Edward,	1330	Talleyrand, P. M.	611	Tunner, Peter,	1529
Staughton, William,	731	Taney, Roger B.	1201	Turner, Edward,	1064
Stedman, Alexander,	66	Tanner, Henry S.	975	Turner, George,	521
Steenstrup, J. S.	1446	Tatham, William P.	1786	Tuscany, G. Duke of,	1174
Steinhauer, H.	814	Taylor, Richard C.	1107	Tuttle, David K.	2166
Steinsky, M.	490	Taylor, William B.	1846	Tweedy, John,	206
Stephens, John L.	1148	Temminck, Conrad I.	906	Tyler, Lyon G.	2163
Sterling, Lord,	205	Temple, Richard C.	2098	Tyndale, Hector,	1632
Stevens, Alex. H.	1247	Ternant, John,	353	Tyndall, John,	1602
Stevens, Edward,	584	Thayer, M. Russell,	1830	Tyson, James,	2138
Stevens, John, Jr.	511	Thayer, Russell,	1793	Tyson, Job R.	1055
Stevens, W. Bacon,	1345	Thayer, Sylvanus,	1089	Tyson, Philip T.	1651
Stevens, Walter Le		Tholuck, A.	1531		
Conte,	1990	Thomas, Allen C.	2006	Uhler, W. M.	1401
Stevenson, Jno. Jas.	1840	Thomas, Isaiah,	793	Urbina, Luis de,	617
Stewart, Dugald,	554	Thomas, Richard,	276		
Stewart, John,	627	Thompson, Elihu,	1807	Vail, Eugene A.	1110
Stiles, Ezra,	69	Thompson, Heber S.	1993	Valentine, Louis,	572
Stiles, Joseph,	242	Thompson, Oswald,	1404	Vall-Travers, Rod.	557
Stille, Alfred,	1299	Thompson, R. E.	1755	Van Berckel, Peter I.	382
Stillé, Charles J.	1579	Thompson, Sir H.	1726	Van Bramm, H. A.	622
Stillman, Samuel,	193	Thomsen, C. J.	1447	Vanderkemp, F. A.	705
St. Mery, Moreau de,	498	Thomson, Charles,	129	Vanderkemp, J. J.	1120
Stockler, Francisco,	717	Thomson, Frank,	1754	Van Marum, Mart.	701
Stockton, Richard,	100	Thomson, James G.	819	Vanuxem, Lardner,	880
Stokes, George G.	2168	Thomson, Sir Wm.	1723	Vater, Johann Sev.	808
Stokes, Wm. A.	1697	Thomson, William,	1909	Vaughan, Benj.	448
Storer, D. H.	1167	Thornton, William,	472	Vaughan, John,	373
Storrs, William L.	1244	Thunberg, Chas. P.	540	Vaughan, Petty,	1169
Story, Joseph,	1202	Thurn, Everard F. im,	2052	Vaughan, Samuel,	372
Strawbridge, Geo.	1834	Thury, A.	1530	Vaughan, Samuel, Jr.	423
Strelkowsky, Peter,	1326	Tiarcks, John Lewis,	924	Vaughan, William,	988
Strickland, William,	855	Ticknor, George,	955	Vauquelin, A.	751
Stromeyer, L.	1478	Tidyman, Philip,	921	Vaux, Cadet de,	465
Strong, Theodore,	1191				

Vaux, George,	476	Wayland, Francis,	1090	Wilson, Alexander,	759
Vaux, Richard,	2000	Wayne, Anthony,	355	Wilson, Daniel,	1489
Vaux, Roberts,	829	Wayne, Henry C.	1399	Wilson, Edmund B.	2150
Vaux, William S.	1408	Wayne, Isaac,	1123	Wilson, James,	233
Vergennes, Count de,	380	Webb, James,	184	Wilson, James C.	2041
Vethake, Henry,	997	Webber, Samuel,	689	Wilson, James P.	774
Vining, John,	138	Webster, Daniel,	1077	Wilson, Joseph M.	1747
Virchow, Rudolf,	1475	Webster, Noah,	944	Wilson, Thomas B.	1304
Vogt, Carl,	1646	Weil, Edward H.	2033	Wilson, William P.	2137
Volney, M.	625	Wells, Richard,	161	Winchell, Alex.	1545
Volpicelli, Paolo,	1442	Welsh, Herbert,	*2017	Winsor, Henry,	1480
Von Carleson, Gus.	591	Welsh, John,	1589	Winthrop, James,	740
Von Hammer, Jos.	805	West, Benjamin,	204	Winthrop, John,	70
Von Leonard, C. C.	1051	West, Francis,	1338	Winthrop, Robert C.	1896
Von Liebig,	1466	West, Samuel,	127	Winthrop, Thos. L.	1070
Von Meyer, H.	1424	West, William,	79	Wireman, Henry D.	2140
Von Raumer, Fred.	1218	Westwood, John O.	1975	Wistar, Charles J.	753
Von Troil, Uno,	569	Wetherill, Ch. M.	1267	Wister, Caspar,	479
Vose, George L.	1670	Wetherill, John P.	934	Wister, Caspar,	1406
Wagner, Andreas,	1425	Wetherill, J. Price,	1850	Wister, Owen Jones,	1561
Wagner, Rudolf Von,	1817	Wetterstedt, Count,	866	Witherspoon, John,	252
Wagner, Samuel,	2034	Wharton, Charles H.	452	Wöhler, Fred.	1467
Wagner, Tobias,	1149	Wharton, Geo. M.	1134	Wood, George B.	971
Wahl, Wm. H.	1748	Wharton, Henry,	1894	Wood, Horatio C.	1556
Walker, John,	524	Wharton, Isaac,	251	Wood, Richard,	1884
Walker, John,	229	Wharton, Joseph,	1639	Woodhouse, James,	607
Walker, Sears C.	1073	Wharton, Samuel,	244	Woodward, Henry,	1762
Wall, George,	417	Wharton, Thomas I.	989	Woolsey, T. B.	1684
Wallace, Alfred R.	1724	Wheatley, Chas. M.	1887	Wootten, J. E.	1751
Wallace, Ellerslie,	2001	Wheaton, Henry,	962	Workman, Benj.	418
Wallenstein, Jules de,	982	Wheeler, Samuel,	588	Workman, James,	863
Waln, Lewis,	1226	White, Andrew D.	1637	Wormley, Theo. G.	1854
Waln, Nicholas,	146	White, I. C.	1848	Worrall, James,	250
Walsh, Robert, Jr.	755	White, Thomas,	482	Worrall, James,	1992
Walter, Thomas U.	1108	White, William,	180	Worthen, A. H.	1488
Ward, Lester F.	2156	Whitehurst, John,	447	Wrangel, Chas. M.	115
Warden, David B.	737	Whitfoord, Caleb,	522	Wright, James,	20
Ware, Nathaniel A.	897	Whitman, Wm. E.	1546	Wright, William,	318
Waring, William,	577	Whitney, George,	1899	Wurts, Charles S.	1932
Warner, Ashton,	25	Whitney, J. D.	1487	Wyckoff, Ambrose B.	2061
Warner, Samuel,	194	Whitney, W. D.	1502	Wylie, James,	865
Warner, Thomas,	189	Whittier, John G.	1659	Wylie, Samuel B.	713
Warren, Gouv'n'r K.	1590	Whittlesey, Chaun.	125	Wyman, Jeffries,	1566
Warren, John C.	821	Wickham, John,	1043	Wyncoop, Benj.	245
Warris, Fort. de	340	Wilcocks, Alex.	94		
Warsaae, J. J. A.	1626	Wilcocks, Alex.	1535	Yarrel, William,	980
Washburne, E. A.	1506	Wilder, Burt G.	1863	Young, Charles A.	1759
Washington, Bush,	708	Wilkes, Chas.	1185	Yrujo, Carlos M. de,	667
Washington, George,	354	Wilkinson, James,	634		
Washington, John,	1112	Willard, Joseph,	696		
Waterhouse, Ben.	548	Williams, Henry J.	1037		
Waters, Nicholas B.	566	Williams, Jon., Jr.	485	Zach, Francisco de,	635
Watson, James F.	1856	Williams, Samuel,	299	Zantedeschi, Fran.	1284
Watts, Stephen,	14	Williamson, Hugh,	51	Zecchinelli, Geo. M.	939
Way, Nicholas,	307	Williamson, Robt. S.	1661	Zentmeyer, Joseph,	1719
		Willing, Thomas,	46	Zimmerman, E. A. W.	586

EXCHANGES AND PRESENTATIONS

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University of Alabama, Tuscaloosa.

CALIFORNIA.

California Academy of Sciences, San Francisco.

Free Public Library, San Francisco.

University of California Library, Berkeley.

CANADA.

Canadian Institute, Toronto.

Geological Survey of Canada, Ottawa.

Historical and Scientific Society of Manitoba, Winnipeg, Manitoba.

L'Institut Canadien-Français, Ottawa.

Montreal Natural History Society, Montreal.

University of Toronto, Toronto.

Botanical Society of Canada, Halifax, Nova Scotia.

Nova Scotia Society of Natural Science, Halifax, Nova Scotia.

COLORADO.

Colorado Scientific Society, Denver.

CONNECTICUT.

American Journal of Science, New Haven.

American Oriental Society, New Haven.

Connecticut Historical Society, Hartford.
 New Haven Colony Historical Society, New Haven.
 Yale College, New Haven.

DISTRICT OF COLUMBIA.

Anthropological Society, Washington.
 Library of Congress, Washington.
 Scientific Library, United States Patent Office, Washington.
 Smithsonian Institution, Washington.
 Surgeon-General's Office, Washington.
 United States Geological Survey, Washington.
 United States Naval Observatory, Washington.
 United States Signal Service, Washington.

GEORGIA.

Georgia Historical Society, Savannah.

ILLINOIS.

American Antiquarian, Mendon.
 Chicago Academy of Sciences, Chicago.
 Chicago Historical Society, Chicago.
 Newberry Library, Chicago.
 Rantoul Literary Society, Rantoul.
 University of Illinois, Champaign.

INDIANA.

Indiana Society of Civil Engineers and Surveyors, Remington.
 State University Library, Bloomington.

IOWA.

Davenport Academy of Sciences, Davenport.
 State University of Iowa, Iowa City.

KANSAS.

Kansas Academy of Science, Topeka.
 Kansas State Historical Society, Topeka.
 Washburn College, Topeka.

KENTUCKY.

Kentucky Historical Society, Frankford.

MAINE.

Maine Historical Society, Portland.
 Natural History Society, Portland.

MARYLAND.

American Chemical Journal, Baltimore.
 Johns Hopkins University, Baltimore.
 Journal of Mathematics, Pure and Applied, Baltimore.

Maryland Historical Society, Baltimore.
 Maryland Institute, Baltimore.
 Peabody Institute, Baltimore.
 United States Naval Institute, Annapolis.

MASSACHUSETTS.

American Academy of Arts and Sciences, Boston.
 American Antiquarian Society, Worcester.
 Amherst College Library, Amherst.
 Boston Athenæum, Boston.
 Boston Public Library, Boston.
 Boston Society of Natural History, Boston.
 Essex Institute, Salem.
 Harvard College, Cambridge.
 Massachusetts Historical Society, Boston.
 Museum of Comparative Zoölogy, Cambridge.
 New Bedford City Library, New Bedford.
 State Library, Boston.
 Statistical Association, Boston.

MICHIGAN.

Michigan State Library, Lansing.
 University of Michigan, Ann Arbor.

MISSOURI.

Geological Survey of Missouri, Jefferson City.
 St. Louis Academy of Sciences, St. Louis.

NORTH CAROLINA.

Elisha Mitchell Scientific Society, Chapel Hill.

NEW HAMPSHIRE.

New Hampshire Historical Society, Concord.
 Northern Academy of Arts and Sciences, Hanover.

NEW JERSEY.

Nassau Hall Library, Princeton.
 New Jersey Historical Society, Newark.

NEW YORK.

Albany Institute, Albany.
 American Chemical Society, New York city.
 Astor Library, New York city.
 Brooklyn Entomological Society, Brooklyn.
 Buffalo Library, Buffalo.
 Buffalo Society of Natural Sciences, Buffalo.
 Columbia College, New York city.

Entomological Society, New York city.
 New York Academy of Medicine, New York city.
 New York Academy of Sciences, New York city.
 New York Historical Society, New York city.
 New York Hospital, New York city.
 New York State Library, Albany.
 Oneida County Historical Society, Utica.
 University of New York, New York city.
 Vassar Brothers' Institute, Poughkeepsie.
 West Point Academy Library, West Point.

OHIO.

Cincinnati Astronomical Observatory, Cincinnati.
 Natural History Laboratory of Dennison University, Granville.
 Society of Natural History, Cincinnati.

PENNSYLVANIA.

Academy of Natural Sciences, Philadelphia.
 American Journal of the Medical Sciences, Philadelphia.
 Athenæum, Philadelphia.
 College of Pharmacy, Philadelphia.
 College of Physicians, Philadelphia.
 Engineers' Club of Philadelphia, Philadelphia.
 Franklin Institute, Philadelphia.
 Haverford College, Montgomery county.
 Linnæan Society, Lancaster.
 Numismatic and Antiquarian Society, Philadelphia.
 Pennsylvania Historical Society, Philadelphia.
 Pennsylvania Hospital, Philadelphia.
 Pennsylvania State Library, Harrisburg.
 Philadelphia Library, Philadelphia.
 Philosophical Society, West Chester.
 The Lackawanna Institute of Science, Scranton.
 The Medical News, Philadelphia.
 The Wagner Free Institute, Philadelphia.
 Wyoming Historical and Geological Society, Wilkes-Barre.
 University of Pennsylvania, Philadelphia.

RHODE ISLAND.

Brown University, Providence.
 Franklin Society, Providence.
 Rhode Island Historical Society, Providence.
 Rhode Island Society for the Encouragement of Domestic Industry,
 Providence.

SOUTH CAROLINA.

Elliot Society of Science and Art, Charleston.
 University of South Carolina, Columbia.

TENNESSEE.

East Tennessee University, Knoxville.
The Athenæum, Columbia.

VERMONT.

Vermont Historical Society, Montpelier.

VIRGINIA.

Leander McCormick Observatory of the University of Virginia,
University of Virginia Post-office.
University of Virginia, University of Virginia Post-office.
Virginia Historical Society, Richmond.

WEST VIRGINIA.

West Virginia University, Morgantown.

WISCONSIN.

Wisconsin State Historical Society, Madison.

FOREIGN.

AFRICA.

South African Philosophical Society, Cape Town.

ARGENTINE REPUBLIC.

Museo Público, Buenos Ayres.

AUSTRALIA.

Linnean Society of New South Wales, Sydney.
New Zealand Public Library, Wellington, New Zealand.
Royal Mint, Melbourne.
Royal Society Hobartstown, Hobartstown.
Royal Society of New South Wales, Sydney.
Royal Society of Victoria, Melbourne.

AUSTRIA.

Académie des Sciences, Cracow.
Accademia degli Agiati, Rovereto.
Anthropologische Gesellschaft, Vienna.
K. Akademie der Wissenschaften, Vienna.
K. K. Central-Anstalt für Meteorologie, Vienna.
K. K. Geographische Gesellschaft, Vienna.

K. K. Geologische Reichsanstalt, Vienna.
 K. K. Universitäts Sternwarte, Prague.
 K. K. Zoologisch-Botanische Gesellschaft, Vienna.
 Magyar Tudományos Akademia, Buda-Pesth.
 Naturforschender Verein, Brünn.
 Section für Naturkunde Ö. T. C., Vienna.

BELGIUM.

Academie Royale des Sciences de Belgique, Bruxelles.
 Academie Royale, Liège.
 Bibliothèque Royale de Belgique, Bruxelles.
 Ministère de l'Interieur, Bruxelles.
 Observatoire Royale, Bruxelles.
 Société Entomologique de Belgique, Bruxelles.
 Société Liègeoise de Littérature Wallonne, Liège.
 Société Royale Malacologique de Belgique, Bruxelles.

CHILI.

Naturwissenschaftlicher Verein, Santiago de Chili.

CHINA.

Royal Asiatic Society, North China Branch, Shanghai.

COLOMBIA.

Sociedad de Naturalistas Colombianos, Bogota.

DENMARK.

Kong. Danske Videnskabernes Selskab, Copenhagen.
 Kong. Nordiske Oldskrift Selskab, Copenhagen.

EGYPT.

Institut Egyptienne, Cairo

ENGLAND.

Bath and West of England Agricultural Society, Bath.
 British Association for the Advancement of Science, London.
 Cambridge Philosophical Society, Cambridge.
 Chemical Society of London, London.
 Editors of Nature, London.
 Geological Society of London, London.
 Leeds Philosophical and Literary Society, Leeds.
 Linnæan Society, London.
 Literary and Philosophical Society, Liverpool.
 Literary and Philosophical Society, Manchester.
 London Board of Trade, London.
 London Institution, London.

London Statistical Society, London.
 Meteorological Office, London.
 Meteorological Society, London.
 Natural History Society, Newcastle-on-Tyne.
 Penzance Natural History and Antiquarian Society, Plymouth.
 Radcliffe Observatory, Oxford.
 Royal Asiatic Society of Great Britain and Ireland, London.
 Royal Astronomical Society, London.
 Royal Cornwall Polytechnic Society, Falmouth.
 Royal Geographical Society, London.
 Royal Geological Society of Cornwall, Penzance.
 Royal Horticultural Society, London.
 Royal Institution of Great Britain, London.
 Royal Society, London.
 Society of Antiquaries of London, London.
 Society of Arts, Manufactures, etc., London.
 University Library, Cambridge.
 Victoria Institute, London.
 Yorkshire Geological and Polytechnic Society, Halifax.
 Zoölogical Society, London.

FINLAND.

La Société Littéraire Finnoise, Helsingfors.
 Société Zoologique et Botanique de Finlande, Helsingfors.

FRANCE.

Académie des Sciences, Arts et Belles-Lettres, Caen
 Académie des Sciences, Arts et Belles-Lettres, Dijon.
 Académie des Sciences, Belles-Lettres et Arts, Bordeaux.
 Bureau des Longitudes, Paris.
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 Société d'Agriculture, Histoire Naturelle et Arts Utiles, Lyon.
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Société des Sciences Naturelles et Archeologiques de la Creuse, Guéret.
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GERMANY.

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 Die Wissenschaftliche Wochenschrift, Berlin.
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 Königliche Bibliothek, Berlin.
 Königliche Gesellschaft der Wissenschaften, Göttingen.
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Naturwissenschaftliche Gesellschaft "Isis," Dresden.
 Naturwissenschaftlicher Verein, Bremen.
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 Voigtländischer Alterthumsforschender Verein, Hohenleuben.
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 Zoologischer Mineral-Verein, Regensburg.
 Zoologischer Anzeiger, Leipsic.
 Zoologische Gesellschaft, Frankfurt a. M.

HAÏTI.

Société des Sciences et de Géographie, Port-au-Prince.

HOLLAND.

Fondation de P. Teyler Van der Hulst, Haarlem.
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 K. Zoologisch Genootschap, Amsterdam.
 Ministère de l'Intérieur, Haarlem.
 Nederlandsche Letterkunde Maatschappij, Leiden.

ICELAND.

Islenska Fornleifarfelag, Reykjavik.

INDIA.

Geological Survey of India, Calcutta.
 Royal Asiatic Society of Bengal.

IRELAND.

Dublin Geological Society, Dublin.
 Royal Dublin Society, Dublin.
 Royal Irish Academy, Dublin.

ITALY.

Accademia Reale delle Scienze, Torino.
 Biblioteca Centrale Nazionale, Firenze.
 R. Accademia dei Lincei, Rome.
 R. Accademia di Scienze, Lettere ed Arti, Padova.
 R. Accademia di Scienze, Lettere ed Arti, Modena.
 R. Comitato Geologico d'Italia, Firenze
 Reale Istituto Lombardo, Milano.
 R. Istituto di Studi Superiori, Firenze.
 R. Istituto Veneto di Scienze, Lettere ed Arti, Venice.
 R. Osservatorio dell' Università, Torino.
 R. Società Italiana D'Igiene, Milan.
 Università di Pisa.

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 Tokyo Library, Tokyo.

MEXICO.

Sociedad Científica "Antonio Alzate," Mexico
 Observatorio Astronómico Nacional, Chapultepec

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K. N. F. Universitetet, Christiania.

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Academia Real das Sciencias, Lisboa.

RUSSIA.

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 Comité Geologique Institut des Mines, St. Petersburg.
 Imp. Akademia Nauk, St. Petersburg.
 Imp. Poublicznaia Biblioteka, St. Petersburg.
 Imp. Rouss. Geogra. Obschestvo, St. Petersburg.
 Imp. Rouss. Mineralog. Obschestvo, St. Petersburg.
 Ministère de la Marine Impériale Administration Générale de la Hydrographie, St. Petersburg.
 Obschestvo Estestvo Ispytatelny, Moscow.
 Obschestvo Estestvo Ispytatelny, Riga.
 Observatoire Astronomique, Tashkent.

Physical Section of the Chemical-Physical Society of the Imperial
University, St. Petersburg.
Publitchnoy Mouzey, Moscow.
Société des Naturalistes, Kieff.
Société des Naturalistes de la Nouvelle Russia, Odessa.
Société Imperiale des Amis des Sciences Naturelles, d'Anthropologie
et d'Ethnographie, Moscow.

SCOTLAND.

Geological Society, Glasgow.
Philosophical Society, Glasgow.
Royal Observatory, Edinburgh.
Royal Society of Edinburgh, Edinburgh.
Society of Antiquaries of Scotland, Edinburgh.

SPAIN.

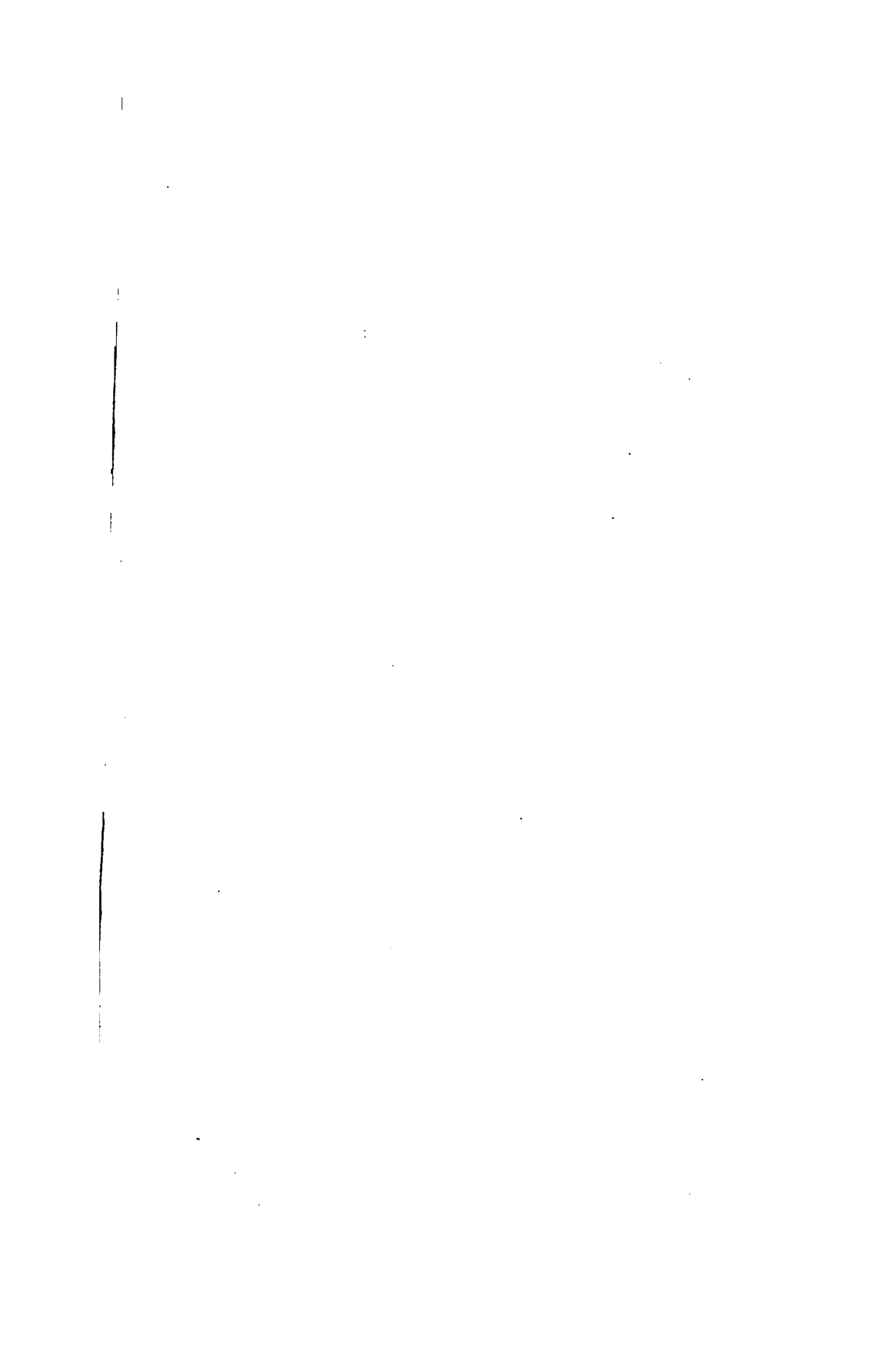
Real Academia de Ciencias, Barcelona.
Real Academia de la Historia, Madrid.
Real Sociedad Económica, Valencia.

SWEDEN.

Kongliga Universitetet, Lund.
Kong. Vetenskaps Societetet, Upsal.
K. Svenska Vetenskaps Akademien, Stockholm.
Statistik Central Byrån, Stockholm.

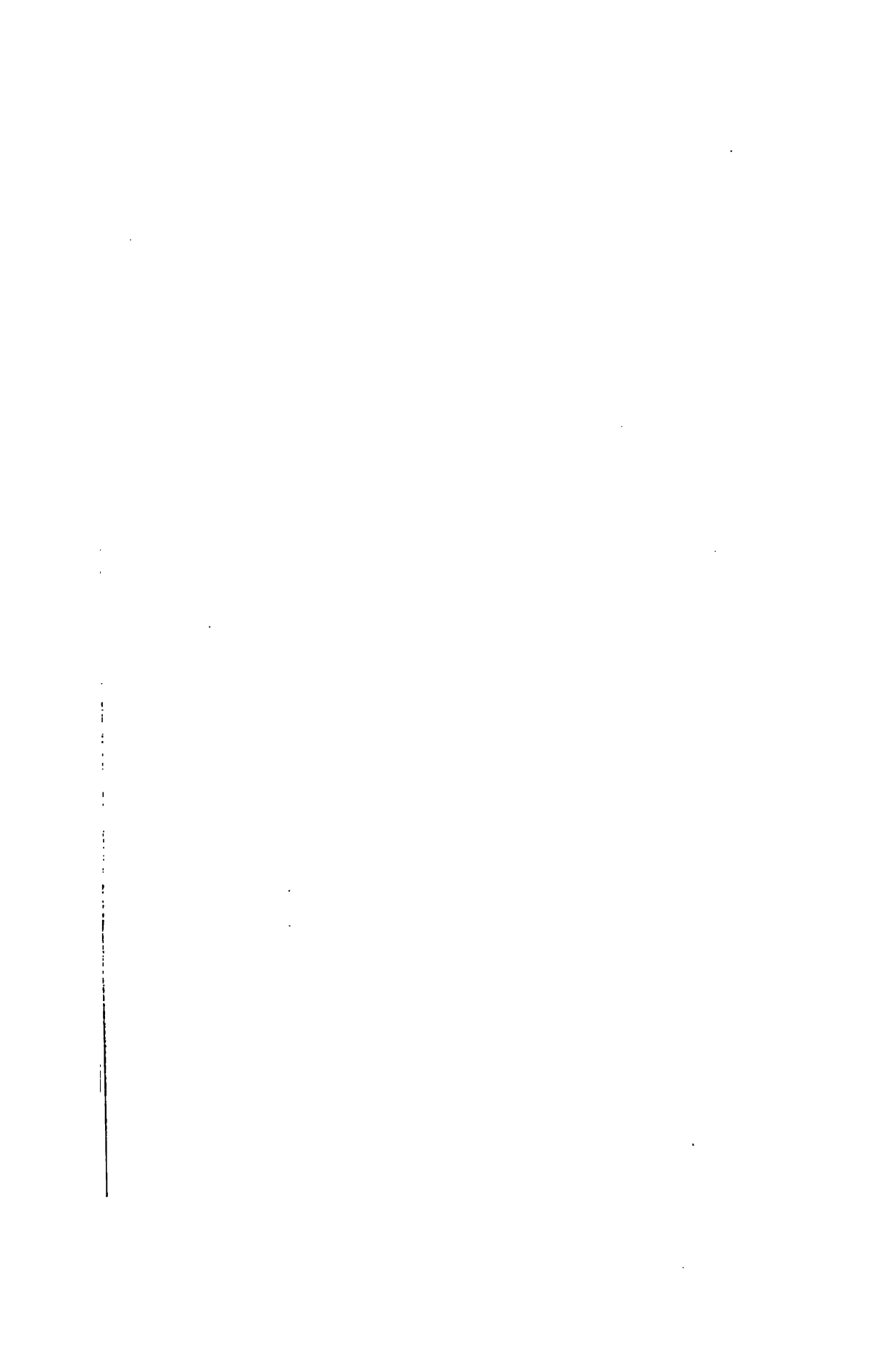
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Naturwissenschaftliche Gesellschaft, St. Gall.
Schweizerische Naturforschende Gesellschaft, Berne.
Société de Physique et d'Histoire Naturelle, Geneva.
Société Helvétique, Zurich.
Société Vaudoise des Sciences Naturelles, Lausanne.



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him the communication, description, or model, except the officer to whom it shall be entrusted; nor shall such officer part with the same out of his custody, without a special order of the Society for that purpose.

6. The Society, having previously referred the several communications from candidates for the premium, then depending, to the consideration of the twelve counsellors and other officers of the Society, and having received their report thereon, shall, at one of their stated meetings in the month of December, annually, after the expiration of this current year (of the time and place, together with the particular occasion of which meeting due notice shall be previously given, by public advertisement) proceed to final adjudication of the said premium; and, after due consideration had, a vote shall first be taken on this question, viz.: Whether any of the communications then under inspection be worthy of the proposed premium? If this question be determined in the negative, the whole business shall be deferred till another year: but if in the affirmative, the Society shall proceed to determine by ballot, given by the members at large, the discovery, invention or improvement most useful and worthy; and that discovery, invention, or improvement which shall be found to have a majority of concurring votes in its favor shall be successful; and then, and not till then, the sealed letter accompanying the crowned performance shall be opened, and the name of the author announced as the person entitled to the said premium.

7. No member of the Society who is a candidate for the premium then depending, or who hath not previously declared to the Society, that he has considered and weighed, according to the best of his judgment, the comparative merits of the several claims then under consideration, shall sit in judgment, or give his vote in awarding the said premium.

8. A full account of the crowned subject shall be published by the Society, as soon as may be after the adjudication, either in a separate publication, or in the next succeeding volume of their Transactions, or in both.

9. The unsuccessful performances shall remain under consideration, and their authors be considered as candidates for the premium for five years next succeeding the time of their presentment; except such performances as their authors may, in the meantime, think fit to withdraw. And the Society shall annually publish an abstract of the titles, object, or subject matter of the communications, so under consideration; such only excepted as the Society shall think not worthy of public notice.

10. The letters containing the names of authors whose performances shall be rejected, or which shall be found unsuccessful after a trial of five years, shall be burnt before the Society, without breaking the seals.

11. In case there should be a failure, in any year, of any communication worthy of the proposed premium, there will then be two premiums to be awarded the next year. But no accumulation of premiums

shall entitle the author to more than one premium for any one discovery, invention or improvement.

12. The premium shall consist of an oval plate of solid standard gold of the value of ten guineas. On one side thereof shall be neatly engraved a short Latin motto suited to the occasion, together with the words: "The Premium of John Hyacinth de Magellan, of London, established in the year 1788;" and on the other side of the plate shall be engraved these words: "Awarded by the A. P. S. for the discovery of——A.D.——." And the seal of the Society shall be annexed to the medal by a ribbon passing through a small hole at the lower edge thereof.

SECTION 2. The Magellanic fund of two hundred guineas shall be considered as ten hundred and fifty dollars, and shall be invested separately from the other funds belonging to or under the care of the Society, and a separate and distinct account of it shall be kept by the treasurer.

The said fund shall be credited with the sum of one hundred dollars, to represent the two premiums for which the Society is now liable.

The treasurer shall credit the said fund with the interest received on the investment thereof, and, if any surplus of said interest shall remain after providing for the premiums which may then be demandable, said surplus shall be used by the Society for making publication of the terms of the said premium, and for such purposes as may be authorized by its charter and laws.

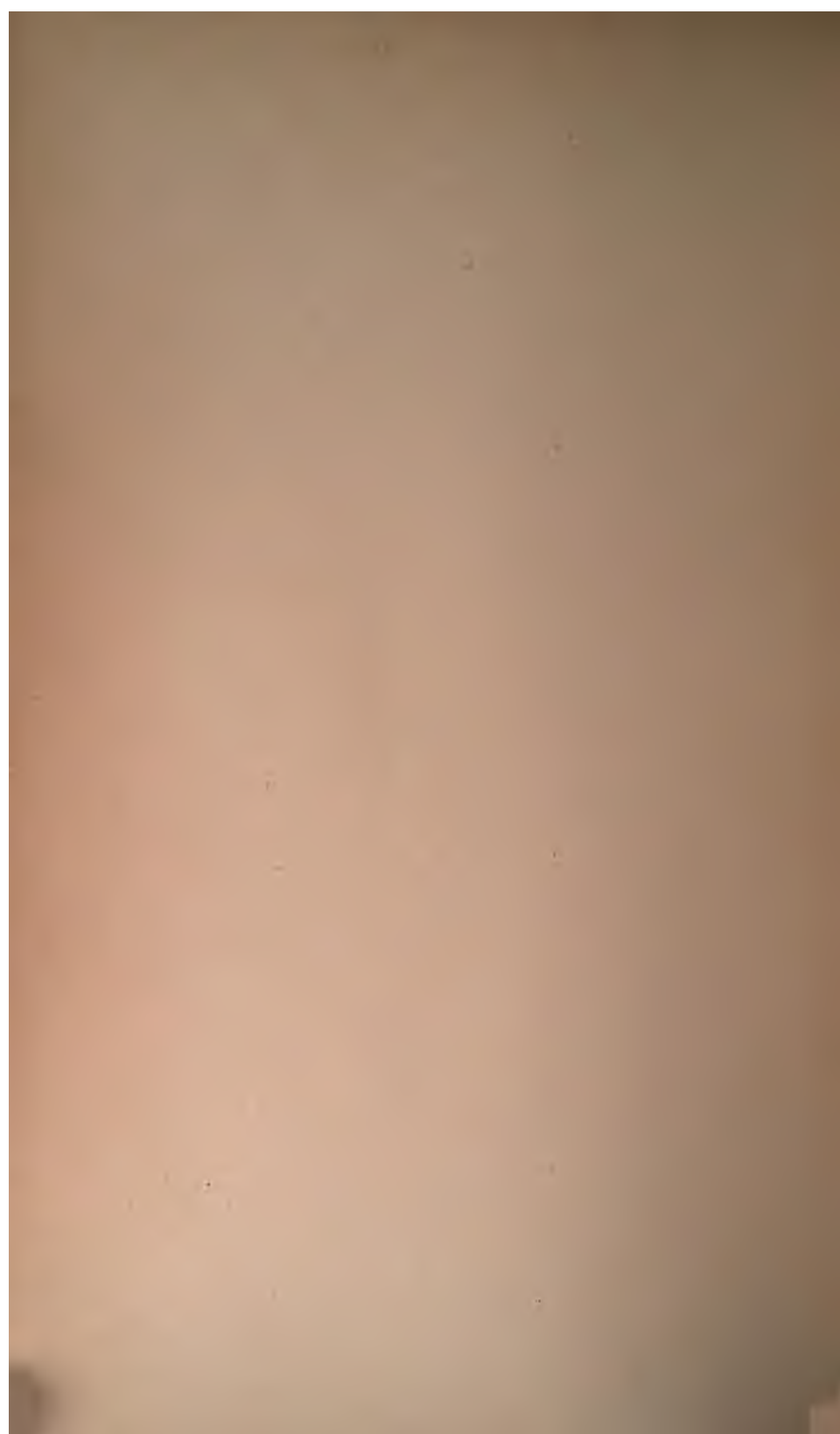
The treasurer shall, at the first stated meeting of the Society in the month of December annually, make a report of the state of said fund and of the investment thereof.

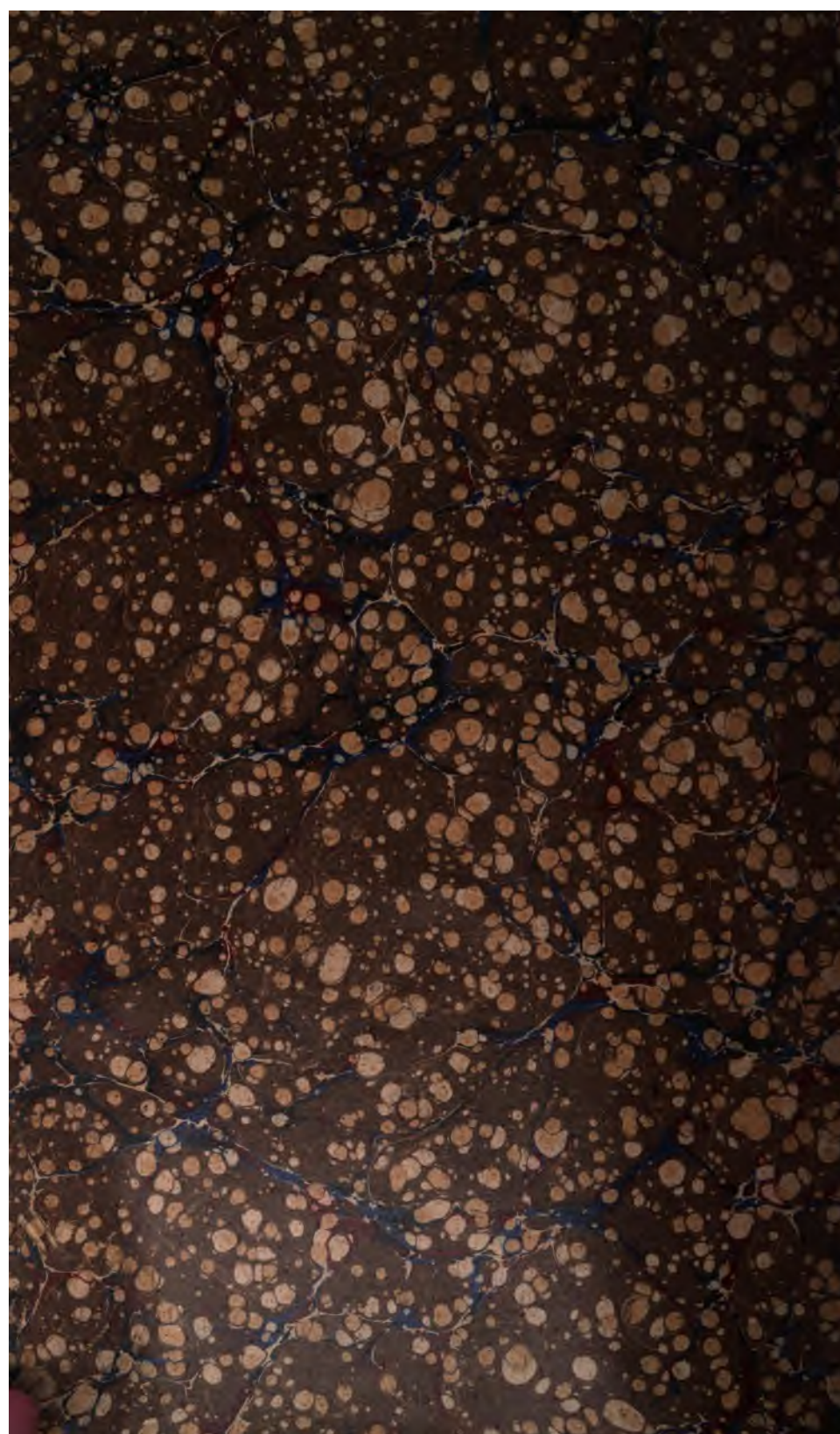
☞ Members who have not as yet sent their photographs to the Society will confer a favor by so doing.

☞ Please communicate any change of address or inaccuracy in name.

☞ A few sets of the Society's Transactions, New Series, 1818 to 1883, XVI vols., 4to, can be obtained from the Librarian. Price \$80.00.

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